() PIONEER'

Service Manual

DEH-P825R/EW



ORDER NO. CRT1805

MULTI-CD CONTROL HIGH POWER CD PLAYER WITH RDS TUNER

DEH-P825R

MULTI-CD CONTROL HIGH POWER CD PLAYER WITH ID-LOGIC TUNER

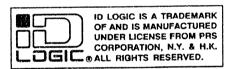
DEH-P825 uc

MULTI-CD CONTROL HIGH POWER CD PLAYER WITH FM/AM TUNER

DEH-P823 es

MULTI-CD CONTROL CD PLAYER WITH ID-LOGIC TUNER

DEX-P99 uc





NOTE:

- See the service manual CX-597(CRT1811) for the CD mechanism description, disassembly and circuit description.
- The CD mechanism employed in this model is one of CX-597 series.

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CD Player Service Precautions

- For pickup unit(CGY1070) handling,please refer to "Disassembly" (CX-597 Service Manual CRT1811).
 During replacement, handling precautions shall be taken to prevent an electrostatic discharge (protection by a short pin).
- During disassembly, be sure to turn the power off since an internal IC might be destroyed when a connector is plugged or unplugged.

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1. SAFETY INFORMATION

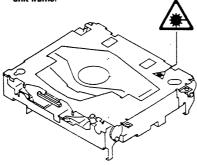
1.1 (DEH-P825R/EW)

- 1. Safety Precautions for those who Service this Unit.
- When checking or adjusting the emitting power of the laser diode exercise caution in order to get safe, reliable
 results.

Caution:

- 1. During repair or tests, minimum distance of 13cm from the focus lens must be kept.
- 2. During repair or tests, do not view laser beam for 10 seconds or longer.
- 2. A "CLASS 1 LASER PRODUCT" label is affixed to the rear of the player.
- 3. The triangular label is attached to the mechanism unit frame.





4. Specifications of Laser Diode

Specifications of laser radiation fields to which human access is possible during service.

Wavelength = 800 nanometers

1.2 (DEH-P825/UC,DEX-P99/UC)

CAUTION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer.

Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely; you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health & Safety Code, Section 25249.5). When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.

2. SPECIFICATIONS

| eneral (DEH-P82! | 14.4 V DC (10.8 — 15.1 V allowable) |
|--------------------|--|
| Power source | Negative type |
| Grounding system | mption 8.0 A |
| Max. current consu | mpuon |
| Dimensions | 170 (N) × 50 (U) × 157 (D) mm |
| (mou | nting size) |
| (fron | t face) |
| Weight | 1.7 kg |
| | |
| eneral (DEH-P82 | 25/UC, P823/ES, DEX-P99/UC) |
| Douger cource | 14.4 V DC (10.6 13.1 V allowable) |
| | |
| May aument concu | mption (DFH-P825/UC. P823/ES) 8.0 A |
| Max. current consu | imption (DEX-P99/UC) |
| | impuoli (DLX-1 33/00) |
| Dimensions | (chassis) |
| (DIN | [7 (W) \times 2 (H) \times 6-1/8 (D) in.] |
| | [/ (W) X Z (H) X O-1/6 (D) mm |
| | (nose) |
| | [7-3/8 (W) \times 2-1/4 (H) \times 5/8 (D) in.] |
| (D) | (chassis) |
| • • | $(7 \text{ AU}) \sim 7 \text{ AU} \sim 6.308 \text{ (1)) in (1)}$ |
| | (nose) |
| | $[6-3/4 \text{ (W)} \times 1-3/4 \text{ (H)} \times 3/8 \text{ (D)} \text{ in.}]$ |
| Watels (DEU DO) | 5/UC, P823/ES) |
| Weight (DEFI-F62 | /UC) |
| Weight (DEX-1 33 | 100) |
| Continuous power | 0 12 With the field and the state of the state of the state of the state output (DEH-P825R/EW) |
| | |
| Loudness contour | +10 dB (100 Hz), +7 dB (10 kHz) |
| | (volume: -30 dB) |
| | |
| mplifier (DEX-P | 99/UC) ———————————————————————————————————— |
| Maximum precut | output level |
| Decema immedance | 1 K22 |
| I oudness contour | +10 dB (100 Hz), +/ dB (10 kHz) |
| Dougless come | (volume: -30 dB) |
| | |
| gualizer | |
| T | metric) |
| one controls (par | (Bass) 50 Hz, 80 Hz, 125 Hz, 200 |
| Frequency | (Bass) 3.15 kHz, 5 kHz, 8 kHz, 12.55 |
| | (17eble) 5.15 KHZ, 5 KHZ, 6 KHZ, 12.51 |
| Equalizatio | n range |
| Cambia Equalizar | |
| Frequency. | 50 Hz 80 Hz 125 Hz 200 Hz, 315 Hz, 500 |
| • | 800 Hz 1 25 kHz, 2 kHz, 3.15 kHz, 5 kHz, 8 kHz, 12.5 |
| Fonalizatio | on range ±12 |
| Cub manfor output | • |
| Croccover | frequency 50 Hz, 80 Hz, 123 |
| | |
| C | slope18 dB |

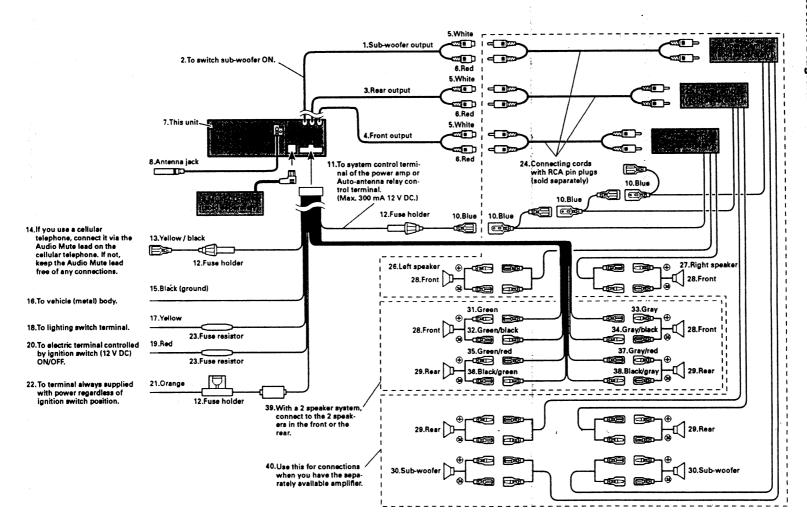
| CD player ———————————————————————————————————— | - |
|--|---|
| System Compact disc audio system | |
| Usable discs | : |
| Signal format Sampling frequency: 44.1 kHz | : |
| Number of quantization bits: 16; linear | |
| Frequency characteristics | į |
| Signal-to-noise ratio | į |
| Dynamic range 90 dB (1 kHz) | , |
| Number of channels | , |
| | |
| AM Tuner (DEH-P825/UC, DEX-P99/UC) | - |
| Frequency range | |
| Usable sensitivity | , |
| Selectivity | |
| · · · · · · · · · · · · · · · · · · · | |
| AM Tuner (DEH-P823/ES) | _ |
| Frequency range | |
| 531 — 1,602 kHz (9 kHz) | |
| Usable sensitivity | |
| Usable sensitivity | ' |
| Selectivity | |
| 50 dB (±9 kHz) |) |
| FM tuner — | - |
| Frequency range (DEH-P825R/EW, P823/ES) | : |
| Frequency range (DEH-P825/UC, DEX-P99/UC) 87.9 — 107.9 MHz | |
| Usable sensitivity | į |
| 50 dB quieting sensitivity | , |
| Signal-to-noise ratio |) |
| Distortion |) |
| Frequency response | • |
| Stereo separation | ì |
| Selectivity (DEH-P825/UC, DEX-P99/UC) 70 dB (2ACA) | |
| Three-signal intermodulation | ' |
| (desire signal level) (DEH-P825/UC, DEX-P99/UC) | |
| (desire signal level) (DER-F6270C, DER-F970C) | |
| | , |
| MW tuner (DEH-P825R/EW) | |
| Figure (DER-POZOR/EW) | - |
| Frequency range | |
| Usable sensitivity | |
| Selectivity |) |
| IIII A (DELL BOOCD /PIA) | |
| LW tuner (DEH-P825R/EW) | - |
| Frequency range | : |
| Usable sensitivity | |
| Selectivity |) |
| - | |

Not

Specifications and the design are subject to possible modification without notice due to improvements.

3. OPERATIONS AND CONNECTION

Connection Diagram



Audio Adjustment

Balance Adjustment

The function allows you to select a Fader/Balance setting that provides ideal listening conditions in all occupied seats.

1. Press the Shift button once to select the Fader/Balance mode.

"FAD" or "BAL" appears on the display.

After adjustment use the Shift button to return to the normal display.

Press the (+) or (▲) button or the (-) or (▼)
button to shift the balance progressively to
the front or rear speakers.

"FAD F25" ~ "FAD R25" is displayed as it moves from front to rear.

Note: "FAD 00" is the proper setting when 2 speakers are in use.

Press the (◄) or (◄◄) button or the (►)or (►►) button to shift the balance to the left or right speaker, respectively.

"BAL L25" ~ "BAL R25" is displayed as it moves from left to right.

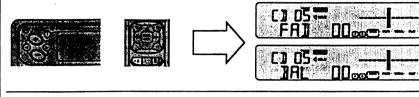
Parametric Bass/Treble Adjustment

This tuner/CD player is equipped with two tone adjustment modes, the Bass Adjustment and Treble Adjustment modes. Each allows you to select one of four frequency levels: 50, 80, 125 or 200 Hz in the Bass Adjustment mode, and 3.2, 5, 8 or 12.5 kHz in the Treble Adjustment mode.

Press the Shift button 2 times to select tone adjustment.

The selected frequency level is displayed. After adjustment use the Shift button to return to the normal display.

2. Press the Band button to select "Bass Adjustment mode" or "Treble Adjustment









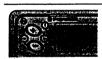












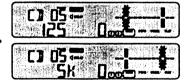












Audio Adjustment

Press the (◄) or (◄◄) button or the (►) or (►►) button to decrease or increase frequency.

Stop when the desired frequency is selected.

 Press the (+) or (▲) button or the (-) or (▼) button, respectively, to increase or decrease the intensity of the bass or treble, whichever is selected.

The display shows "+6"--"-6".

5. Repeat steps 2-4 above for the other Bass or Treble Adjustment mode.

















Tuner Operation

Tuner Source and Band

 Push the SO button or the TUNER button to select Tuner.

The program service name or frequency appears on the display.

("O" indicator lights when stereo station selected.)

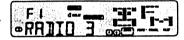
 Use the Band button to select the desired band.

(F1, F2, MW/LW)













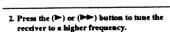


Manual and Seek Tuning

Both Manual (step-by-step) and Seek (automatic) tuning are available.

 Press button 12 for 2 seconds or longer to switch alternately between the Manual and Seek tuning modes.

The "MANU" indicator lights when Manual tuning is selected and turns OFF when Seek tuning is selected.



MANU ON (Manual tuning): The frequency changes step by step. MANU OFF (Seek Tuning): The tuner automatically seeks out and receives broadcasting stations.

 Press the (◄) or (◄◄) button to tune the receiver to a lower frequency.























Using the Built-in CD Player

Playing the Built-in CD player

 To play a CD that is already loaded, press the SO or CD/MCD button with a CD loaded to select the built-in CD player.

The built-in CD player is selected only when a CD is loaded.









Using Multi-CD Players

Multi-CD player operation

 Press the SO button or the CD/MCD button to select the multi-CD player source.

The message "MRP" ("Multi-CD player repeat"), the multi-CD player, disc and track numbers, and the playback time are displayed.

Notes:

- You cannot select the Multi-CD player source if no multi-CD player is installed or no magazine is loaded in an installed multi-CD player.
- The multi-CD player may perform a preparatory operation, such as verifying the presence of a disc or reading disc information, when the power is turned ON or a new disc is selected for playback. "READY" is displayed.
- If the multi-CD player cannot operate properly, an error message such as "ERROR-80" (No disc) is displayed.









4. DISASSEMBLY

Removing the Case(not shown)

- Remove the one screw.(Only DEX-P99/UC)
 Remove the two screws.(Except for DEX-P99/UC)
- 2. Insert and turn a flat screwdriver to remove the case.
- 3. Raise the case to remove.

■ Removing the Detach Grille Assy(not shown)

- 1. Press the detach button.
- 2. Remove the detach grille assy.

Removing the CD Mechanism Module(Fig.1)

- 1. Remove the four screws A.
- 2. Disconnect the two connectors C.
- 3. Remove the CD mechanism module.

■ Removing the Panel Assy(Fig.1)

- 1. Remove the two screws B.
- 2. Disconnect the two connectors D.
- Press the four stoppers at locations indicated by allows, and then pull out the panel assy.

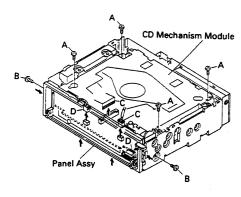


Fig.1

■ Removing the Tuner Amp Unit(Fig.2)

- Remove the two screws A, one screw B, one screw C, the three screws D, the holder and one screw E(only DEX-P99/UC).
- 2. Unbend the tabs at three locations indicated by arrows until straight.
- 3. Remove the tuner amp unit.

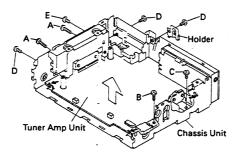


Fig.2

■ Removing the Cover Unit(Fig.3)

- 1. Remove the four screws.
- 2. Press the three stoppers at locations indicated by allows, and then pull out the cover unit.

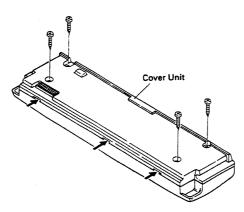


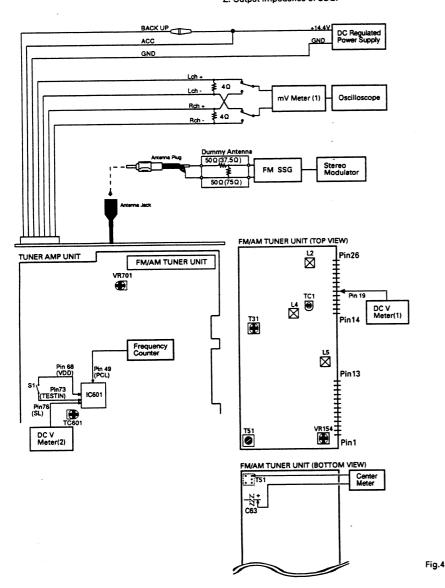
Fig.3

5. ADJUSTMENT

Connection Diagram

NOTE:

Select C1 so that total capacity of 80pF is attained from the direction of the receiver jack. Z: Output impedance of SSG.



FM ADJUSTMENT(EW, ES MODEL)

Modulation M:MONO MOD., 400Hz 30%(22.5kHz Dev.)

S1:STEREO MOD., 1kHz, L or R=30%(20.25kHz+7.5kHz Dev.)

S2:STEREO MOD., 1kHz, L or R=60%(40.50kHz+7.5kHz Dev.)

NOTE:Before proceeding to further adjustments after switching power ON, let the tuner run for ten minutes to allow the circuits to stabilize.

| | | FM SS | SG | Displayed | Adjustment | Adjustment Method |
|----------|-----|----------------|------------|----------------|------------|---|
| | No. | Frequency(MHz) | Level(dBf) | Frequency(MHz) | Point | (Switch Position) |
| TUN Volt | 1 | ***** | •••• | 108.0 | L5 | DC V Meter(1): 6V |
| IF | 1 | 98.1 M | 60 | 98.1 | T51 | Center Meter : 0 |
| ANT Coil | 1 | 98.1 M | 5 | 98.1 | L2 | mV Meter(1): Maximum |
| RF Coil | 1 | 98.1 M | 5 | 98.1 | L4 | mV Meter(1): Maximum |
| Image | 1 | 129.3 M | 6080 | 107.9 | TC1 | mV Meter(1): Minimum |
| IFT | 1 | 98.1 M | 5 | 98.1 | T31 | mV Meter(1) : Maximum (STEREO MODE) |
| ARC | 1 | 98.1 S1 | 39 | 98.1 | VR154 | mV Meter(1) : Separation 5dB (STEREO MODE) |

FM ADJUSTMENT(UC MODEL)

| I IVI AD | <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u> | INICIAL (CC INICI | | | | |
|----------|--|-------------------|------------|----------------|-------------|--|
| | | FM SSG | | Displayed | Adjustment | Adjustment Method |
| | No. | Frequency(MHz) | Level(dBf) | Frequency(MHz) | Point | (Switch Position) |
| TUN Volt | 1 | **** | •••• | 107.9 | L5 | DC V Meter(1): 6V |
| 1F | 1 | 98.1 M | 60 | 98.1 | T51 | Center Meter : 0 |
| ANT Coil | 1 | 98.1 M | 5 | 98.1 | L2 | mV Meter(1): Maximum |
| RF Coil | 1 | 98.1 M | 5 | 98.1 | L4 | mV Meter(1) : Maximum |
| IFT | 1 | 98.1 M | 5 | 98.1 | T31 | mV Meter(1) : Maximum (STEREO MODE) |
| ARC | 1 | 98.1 S1 | 39 | 98.1 | VR154 | mV Meter(1): Separation 5dB (STEREO MODE) |

RDS SL ADJUSTMENT

| T | FM SSG | | Displayed | Adjustment | Adjustment Method |
|-----|----------------|------------|----------------|------------|----------------------------|
| No. | Frequency(MHz) | Level(dBf) | Frequency(MHz) | Point | (Switch Position) |
| 1 | 104.0 S2 | 35 | 104.0 | VR701 | DC V Meter(2): 1.75V±0.05V |

CLOCK ADJUSTMENT

| <u> </u> | DECOR ADOCCIMENT | | | | | | |
|----------|------------------|------------------|------------------------------------|--|--|--|--|
| | No. | Adjustment Point | Adjustment Method | | | | |
| | 1 | | S1:ON | | | | |
| | 2 | TC601 | Frequency Counter: 1.048576MHz±2Hz | | | | |

6. TEST MODE

6.1 TEST MODE

1)Precautions

 This unit uses a single power supply (+5V) for the regulator. The signal reference potential, therefore, is connected to REFO(approx. 2.5V) instead of GND.

If REFO and GND are connected to each other by mistake during adjustments, not only will it be impossible to measure the potential correctly, but the servo will malfunction and a severe shock will be applied to the pick-up. To avoid this, take special note of the following.

Do not connect the negative probe of the measuring equipment to REFO and GND together. It is especially important not to connect the channel 1 negative probe of the oscilloscope to REFO with the channel 2 negative probe connected to GND.

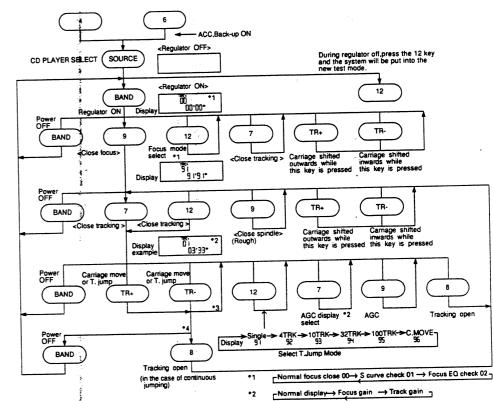
Since the frame of the measuring instrument is usually at the same potential as the negative probe, change the frame of the measuring instrument to floating status.

If by accident REFO comes in contact with GND, immediately switch the regulator or power OFF.

- Always make sure the regulator is OFF when connecting and disconnecting the various filters and wiring required for measurements.
- Before proceeding to further adjustments and measurements after switching regulator ON, let the player run for about one minute to allow the circuits to stabilize.
- Since the protective systems in the unit's software are rendered inoperative in test mode, be very careful to avoid mechanical and /or electrical shocks to the system when making adjustment.
- Test mode starting procedure Switch ACC, back-up ON while pressing the 4 and 6 keys together.

- Test mode cancellation Switch ACC, back-up OFF.
- Disc detection during loading and eject operations is performed by means of a photo transistor in this unit.Consequently, if the inside of the unit is exposed to a strong light source when the outer casing is removed for repairs or adjustment, the following malfunctions may occur.
- *During PLAY, even if the eject button is pressed, the disc will not be ejected and the unit will remain in the PLAY mode.
- *The unit will not load a disc.
- When the unit malfunctions this way, either re-position the light source, move the unit or cover the photo transistor.
- When loading and unloading discs during adjustment procedures, always wait for the disc to be properly clamped or ejected before pressing another key. Otherwise, there is a risk of the actuator being destroyed.
- Turn power off when pressing the button TR+ or the button TR- key for focus search in the test mode. (Or else lens may stick and the actuator may be damaged.)
- SINGLE/4TRK/10TRK/32TRK will continue to operate even after the key is released. Tracking is closed the moment C-MOVE is released.
- JUMP MODE resets to SINGLE as soon as power is switched off.

● Flow Chart



- *3 100 TRK jump & carriage move continue only while the keys are pressed
- *4 SINGLE/4/10/32 → continuous even after key release

6.2 ERROR NUMBERS AND NEW TEST MODE

Error Number Indication

If the CD should fail to operate or if an error has taken place during operation the player will enter into the error mode, and the cause of the error will be numerically indicated.

This is aimed at assisting in analysis or repair.

(1) Basic Means of Display

·With ERROR indicated in *MODE* on IP-BUS Display data, an error code is transmitted by the use of MIN and SEC. The MIN and SEC data will be identical.

·Examples of Display

ERROR-XX

(2) Error Codes

| Error Code | Classification | Description | Cause/Detail |
|---------------|----------------|-------------------------------|---|
| 10 | ELECTRIC | Carriage home failure | Carriage doesn't move to or from the innermost position →Home switch failed and/or carriage immobile |
| 11 | ELECTRIC | Focus failure | Focus failed →Defects, disc upside-down, severe vibration |
| 12 | ELECTRIC | SETUP failure Subcode failure | Spindle failed to lock or subcode unreadable →Spindle defective, defect, severe vibration |
| 14 | ELECTRIC | Mirror failure | Unrecorded CD-R The disc is upside-down, defects, vibration |
| 17 | ELECTRIC | Set up failure | AGC protect failed →Defects, disc upside-down, severe vibration |
| 30 | ELECTRIC | Search time out | Failed to reach target address Carriage/tracking defective and/or defects |
| A0 | SYSTEM | Power failure | Power overvoltage or short circuit detected →Switching transistor defective and/or power abnorma |

[&]quot;defects" means scratches, dirt etc an the surface of the disc.

New Test Mode(aging operation and setup analysis)

The single CD player plays in normal mode. After being set up, it will display FOK (focus), LOCK (spindle), subcode, sound skip, protection against a mechanical error or the like, occurrence of an error, cause and time of an expiry, if any, (and disc number).

During the setup, the CD software operation status (internal RAM and C-point) is displayed.

(1) How to enter NEW TEST Mode

See the test mode flow chart Page 13.

(2) Relations of keys between TEST and NEW TEST Modes

| Keys | Test N | Test Mode | | New Test Mode |
|------|---------------|----------------|------------------|--|
| | Regulator OFF | Regulator ON | PLAY in progress | Error Occurred, Protection Activated |
| BAND | Regulator ON | Regulator OFF | _ | Time of occurrence / cause of error select |
| TR+ | | FWD-KICK | TRACK+/FF | _ |
| TR- | _ | REV-KICK | TRACK-/REV | _ |
| 7 | _ | TRACKING CLOSE | SCAN | - |
| 8 | | TRACKING OPEN | MODE | |
| 9 | | FOCUS CLOSE | ITP | - |
| 12 | To New Test | FOCUS MODE | AUTO/MANU | . – |
| | Mode Select | | | |

Operations, such as EJECT, CD ON/OFF, etc. are performed normally.

(3) Error Cause (Error Number) Code

| Error Code | Classification | Mode | Description | Cause | Detail |
|------------|----------------|------|--------------------|------------------------|---------------|
| 40 | ELECTRIC | PLAY | FOK=L 100ms | Put out of focus | Scratch, |
| 41 | ELECTRIC | PLAY | LOCK=L 100ms | Spindle unlock | Stain, |
| 42 | ELECTRIC | PLAY | Subcode | Failed to read subcode | Vibration, |
| | | | unacceptable 500ms | | Servo defect, |
| 43 | ELECTRIC | PLAY | Sound skipped | Last address memory | etc |
| | | 1 | 1 | operated | 1 |

(4) Indicating an Operation Status During Setup

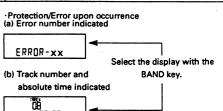
| Status No. | Description | Protection operation |
|------------|--|--|
| 01 | Carriage home mode started | None |
| 02 | Carriage moving inwards | 10-second time out, Home switch failed |
| 03 | Carriage moving outwards | 10-second time out, Home switch failed |
| 05 | Carriage moving outwards | None |
| 11 | Setup started | None |
| 12 | Spindle turn/Focus search started | None |
| 13 | Waiting for focus closure (XSI=L) | Failure to close focus |
| 10,14 | Waiting for focus closure (FOK=H) | Failure to close focus |
| 15, 16, 17 | Focus closed, Tracking open | Focus disrupted |
| 18 | During focus AGC | Focus disrupted |
| | Subcode waiting | |
| 19 | During tracking AGC | Disrupted focus |
| 20 | Waiting for MIRR, LOCK or subcode read | Focus disrupted, MIRR NG, Failure to lock, |
| | Carriage closed, SPINDLE=ADAPTIVE | Failed to read subcode |

Example of Displa

·SET UP in progress

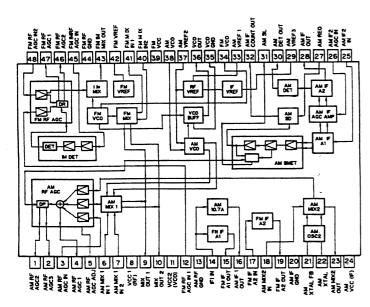
9'i 9'i*9'i*

Operation (PLAY, SEARCH, etc.) in progress perfectly identical with that in the normal mode.

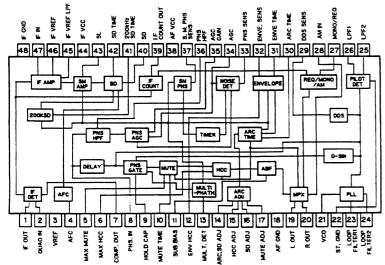


7. IC INFORMATION

PA4023A



PA4024A



| Pin | Functions | (PD4629A, I | PD4630A) |
|-----------------------|-----------|-------------|----------|
| | | | |

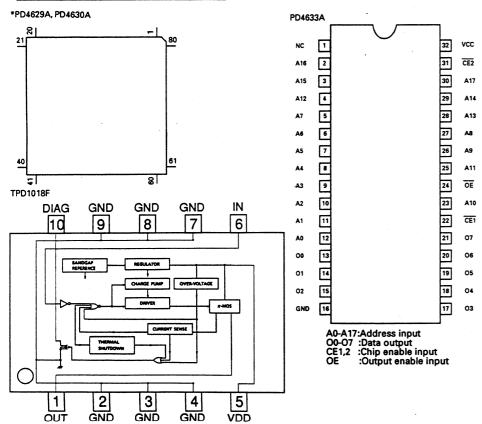
| Pin No. | Pin Name | 1/0 | Format | Function and Operation |
|---------|----------|----------------|--|---|
| 1-3 | NC | | 1 | Not used |
| 4 | AVSS | | | GND |
| 5,6 | NC | | | Not used |
| 7 | AVREF0 | | | GND |
| 8 | KYDT | 1 | | Key data input |
| 9 | DPDT | Ö | С | Display data output |
| 10 | SWVDD | ŏ | C | Grille micro computer power supply control output |
| 11 | RIDDI | Ť | | RDS/ID LOGIC data input |
| 12 | RIDDO | ' 0 | С | RDS/ID LOGIC data output |
| 13 | RIDCK | - 0 | č | RDS/ID LOGIC clock output |
| | | 0 | č | P-BUS reset output |
| 14 | BRST | 0 | Č | P-BUS enable output |
| 15 | BRXEN | | l č | P-BUS request input |
| 16 | BSRQ | 1,00 | | |
| 17 | BSIO | 1/0 | C | P-BUS data input/output |
| 18 | BSCK | 1/0 | C | P-BUS clock input/output |
| 19 | RIDRST | 0 | С | RDS/ID LOGIC reset output |
| 20 | RIDSEL | 0 | С | RDS/ID LOGIC select output |
| 21-24 | NC | | | Not used |
| 25,26 | SOR0,1 | 0 | С | Source select output |
| 27 | ST | 1 | | Stereo input |
| 28 | SD | | | FMSD input |
| 29 | PDI | 1 | | PLL data input |
| 30 | PCK | 0 | С | PLL clock output |
| 31 | PDO | 0 | С | PLL data output |
| 32 | PCE | 0 | С | PLL chip enable output |
| 33 | VSS | | | GND |
| 34 | NC | | | Not used |
| 35 | NC | | | Not used |
| 36 | NC | | | Not used |
| 37 | ALLED | 0 | N | Detach alarm LED output |
| 38 | CDPW | ö | N | Power supply select output |
| 39 | TMUTE | ŏ | N | Tuner mute output |
| | | 0 | C | IP-BUS mute output |
| 40 | BUSMUTE | | | ACC output for IP-BUS |
| 41 | ASENBO | 0 | С | |
| 42 | MUTRQ | ! | | Mute request from DSP |
| 43 | BMUTIN | 1 | | Mute request from CDS micro computer |
| 44 | NC | | | Not used |
| 45 | PEE | 0 | С | Beep tone output |
| 46 | DOORSYS | 0 | С | Detach alarm system select output |
| 47 | SYSPW | 0 | С | System power output |
| 48 | MUTE | 0 | С | Mute output |
| 49 | PCL | 0 | С | Clock adjustment output |
| 50 | LCDPW | 0 | С | Back light control output |
| 51 | DIM | 0 | С | Dimmer output |
| 52 | ILMPW | 0 | С | Illumination power supply control output |
| 53 | CSENS | ī | | Flap close sense input |
| 54 | ISENS | i | | Illumination sense input |
| 55 | IPPW | i | 1 | IP-BUS driver power supply control input |
| 56 | TX | Ö | C | IP-BUS data output |
| 57 | RX | ۱ř | † | IP-BUS data input |
| 58 | ALON | 6 | С | Relay output for detach alarm hom |
| | DOORSENS | 1 | + | Detach alarm door open/close sense input |
| 59 | | | +- | |
| 60 | RESET | 0 | С | Reset output |
| 61 | TELIN | <u> </u> | | Telephone mute input |
| 62 | BSENS | <u> </u> | _ | Back up sense input |
| 63 | ASENS | 1 | _ | ACC sense input |
| 64 | DSENS | 1_1 | | Grille detach sense input |
| 65 | RIDRDY | 1 | 1 | RDS/ID-LOGIC ready input |

| Pin No. | Pin Name | 1/0 | Format | Function and Operation | |
|---------|----------|-----|--------|-----------------------------------|--|
| 66,67 | NC | | | Not used | |
| 68 | VDD | | | Power supply | |
| 69 | X2 | 0 | С | Crystal oscillator connection pin | |
| 70 | X1 | 1 | | Crystal oscillator connection pin | |
| 71 | IC | | | GND | |
| 72 | XT2 | | | Not used | |
| 73 | TESTIN | 1 | | Test program mode input | |
| 74 | AVDD | 1 | | A/D converter analog power supply | |
| 75 | NC | | | Not used | |
| 76 | SL | 1 | | Signal level input | |
| 77-79 | SEL0,2 | I | | Forwarding input | |
| 80 | NC | | | Not used | |

Format Meaning C MOS N channel open drain

IC's marked by * are MOS type.

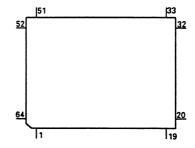
Be careful in handling them because they are very liable to be damaged by electrostatic induction.



| | | | - | |
|-------|---------|--------|-------|------|
| - C r | 'In rur | ctions | וסטמו | 54A) |

| Pin No. Pin Name I/O Format Function and Operation 1 PCK O N PLL Communication clock output 2 PDO O N PLL Communication data output 3 PDI I PLL Communication data input 4 SL I Signal level input 5 NL I Noise level input 6 TRGL Pull down connect terminal 7 SOUND I A sound signal for distinguish a same program 8 RMUTE O N RDS mute output 9-11 NC Not used Not used 12 AVCC 5V power supply 13 AVR 5V power supply 14 AVSS GND 15 IRSEL I Micro computer select input 16 RCK I RDS demodulation clock input 17 RDT I RDS demodulation data input | 1 | | | Format | Function and Operation |
|--|-------|--------|---|--------|---|
| 2 PDO O N PLL Communication data output 3 PDI I PLL Communication data input 4 SL I Signal level input 5 NL I Noise level input 6 TRGL Pull down connect terminal 7 SOUND I A sound signal for distinguish a same program 8 RMUTE O N RDS mute output 9-11 NC Not used 12 AVCC 5V power supply 13 AVR 5V power supply 14 AVSS GND 15 IRSEL I Micro computer select input 16 RCK I RDS demodulation clock input | | | | | |
| 3 | | | | | |
| 4 SL I Signal level input 5 NL I Noise level input 6 TRGL Pull down connect terminal 7 SOUND I A sound signal for distinguish a same program 8 RMUTE O N RDS mute output 9-11 NC Not used 12 AVCC 5V power supply 13 AVR 5V power supply 14 AVS GND 15 IRSEL I Micro computer select input 16 RCK I RDS demodulation clock input | 2 | | 0 | N | |
| 5 NL I Noise level input 6 TRGL Pull down connect terminal 7 SOUND I A sound signal for distinguish a same program 8 RMUTE O N RDS mute output 9-11 NC Not used 12 AVCC 5V power supply 13 AVR 5V power supply 14 AVSS GND 15 IRSEL I Micro computer select input 16 RCK I RDS demodulation clock input | 3 | | | | |
| 6 TRGL Pull down connect terminal 7 SOUND I A sound signal for distinguish a same program 8 RMUTE O N RDS mute output 9-11 NC Not used 12 AVCC 5V power supply 13 AVR 5V power supply 14 AVSS GND 15 IRSEL I Micro computer select input 16 RCK I RDS demodulation clock input | 4 | SL | 1 | | |
| 7 SOUND I A sound signal for distinguish a same program 8 RMUTE O N RDS mute output 9-11 NC Not used 12 AVCC 5V power supply 13 AVR 5V power supply 14 AVSS GND 15 IRSEL I Micro computer select input 16 RCK I RDS demodulation clock input | 5 | | 1 | | |
| 8 RMUTE O N RDS mute output 9-11 NC Not used 12 AVCC 5V power supply 13 AVR 5V power supply 14 AVSS GND 15 IRSEL I Micro computer select input 16 RCK I RDS demodulation clock input | 6 | TRGL | | | |
| 9-11 NC Not used 12 AVCC 5V power supply 13 AVR 5V power supply 14 AVS GND 15 IRSEL I Micro computer select input 16 RCK I RDS demodulation clock input | 7 | SOUND | | | A sound signal for distinguish a same program |
| 12 AVCC 5V power supply 13 AVR 5V power supply 14 AVSS GND 15 IRSEL I Micro computer select input 16 RCK I RDS demodulation clock input | 8 | RMUTE | 0 | N | RDS mute output |
| 13 AVR 5V power supply 14 AVSS GND 15 IRSEL I Micro computer select input 16 RCK I RDS demodulation clock input | 9-11 | | | | Not used |
| 14 AVSS GND 15 IRSEL I Micro computer select input 16 RCK I RDS demodulation clock input | 12 | AVCC | | | 5V power supply |
| 15 IRSEL I Micro computer select input 16 RCK I RDS demodulation clock input | 13 | | | | |
| 16 RCK I RDS demodulation clock input | 14 | AVSS | | | GND |
| | 15 | IRSEL | | | Micro computer select input |
| 17 RDT I RDS demodulation data input | 16 | RCK | | | RDS demodulation clock input |
| | 17 | RDT | | | RDS demodulation data input |
| 18 LDET I PLL lock detect input | 18 | LDET | | | |
| 19 RDSLK I RDSLK signal input | 19 | RDSLK | | | RDSLK signal input |
| 20 IRRST I Micro computer reset input | 20 | IRRST | | | Micro computer reset input |
| 21,22 MOD0,1 GND | 21,22 | MOD0,1 | | | GND |
| 23 XIN I Crystal oscillating element connection pin | 23 | XIN | | | Crystal oscillating element connection pin |
| 24 XOUT 0 C Crystal oscillating element connection pin | 24 | | 0 | С | |
| 25 VSS GND | 25 | VSS | | | GND |
| 26 DRST O C Decoder reset output | 26 | DRST | | | Decoder reset output |
| 27 L/S O C Output for select sensitivity of noise level | 27 | L/S | | | Output for select sensitivity of noise level |
| 28 CURRQ O C PLL-TV-Fix output | 28 | CURRQ | 0 | С | PLL-TV-Fix output |
| 29 IRRDY O C Communication ready output | 29 | IRRDY | 0 | С | Communication ready output |
| 30–49 NC Not used | 30-49 | NC | | | Not used |
| 50 VSS GND | 50 | VSS | | | GND |
| 51 TEST I Test program input | 51 | TEST | | | Test program input |
| 52 IRCK I Communication clock input | 52 | IRCK | 1 | | Communication clock input |
| 53 IRDO O C Communication data output | 53 | IRDO | 0 | С | Communication data output |
| 54 IRDI I Communication data input | 54 | IRDI | | | Communication data input |
| 55 PCE O C PLL Communication enable output | 55 | PCE | 0 | С | PLL Communication enable output |
| 56 GD O C Tuner unit gate drive control output | 56 | GD | 0 | С | Tuner unit gate drive control output |
| 57 VCC 5V power supply | 57 | VCC | | | 5V power supply |
| 58 SD I SD signal input | 58 | SD | | | |
| 59 MDSENS I Modulation detect input | 59 | MDSENS | | | |
| 60-64 NC Not used | 60-64 | NC | | | Not used |

*PD6164A



| Format | Meaning |
|--------|----------------------|
| С | C MOS |
| N | N channel open drain |

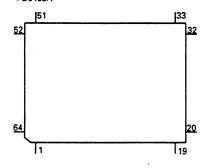
GND

GND

| • | Pin | Functi | ions(| PD61 | 65A) |
|---|-----|--------|-------|------|------|
| | | | | | |

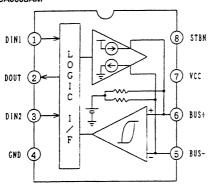
| Pin Functions(PD6165A) | | | | | | | |
|------------------------|----------|-----|--------|--|--|--|--|
| Pin No. | Pin Name | 1/0 | Format | Function and Operation | | | |
| 1-8 | NC | | | Not used | | | |
| 9-11 | ADD13-15 | 0 | N | ROM Adress 13-15 | | | |
| 12 | AVCC | | | 5V power supply | | | |
| 13 | AVR | | | 5V power supply | | | |
| 14 | AVSS | | | GND | | | |
| 15 | IRSEL | 1 | | Select input | | | |
| 16-19 | NC | | | Not used | | | |
| 20 | TRRST | 1 | | Reset input | | | |
| 21,22 | MOD0,1 | | | GND | | | |
| 23 | XIN | 1 | | Crystal oscillating element connection pin | | | |
| 24 | XOUT | 0 | | Crystal oscillating element connection pin | | | |
| 25 | VSS | | | GND | | | |
| 26-28 | NC | | | Not used | | | |
| 29 | IRRDY | 0 | С | Communication ready output | | | |
| 30 | OE . | 0 | С | ROM output control | | | |
| 31 | ROMEN | 0 | С | ROM enable | | | |
| 32,33 | ADD17,16 | 0 | С | ROM adress 17,16 | | | |
| 34-41 | ADD7-0 | 0 | С | ROM adress 7-0 | | | |
| 42-49 | DT7-0 | 1 | | ROM data input 7-0 | | | |
| 50 | VSS | | | GND | | | |
| 51 | TEST | | | Test program input | | | |
| 52 | IRSCK | 1 | | Communication clock input | | | |
| 53 | IRDO | 0 | С | Communication data output | | | |
| 54 | IRDI | | | Communication data input | | | |
| 55,56 | NC | | | Not used | | | |
| 57 | VCC | | | 5V power supply | | | |
| 58,59 | NC | | | Not used | | | |
| 60-64 | ADD8-12 | 0 | N | ROM adress 8-12 | | | |

*PD6165A



| Format | Meaning |
|--------|----------------------|
| С | C MOS |
| N | N channel open drain |

CA0008AM

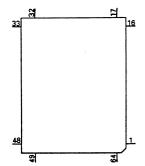


● Pin Functions(PD4623A)

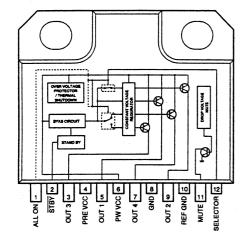
| | ONSIPU4623/ | | T F | Function and Operation |
|---------|-------------|--|--------------|--|
| Pin No. | Pin Name | 1/0 | Format | Function and Operation |
| 1 | NC | <u> </u> | | Not used |
| 2 | XRST | 0 | С | CD LSI reset output |
| 3,4 | NC | | | Not used |
| 5 | CBNK0 | 0 | С | DSP bank for compressor set up output 0 |
| 6 | NC | | | Not used |
| 7 | HOME | <u> </u> | <u> </u> | Carriage home position detector input |
| 8 | CLAMP | 1 | | Disc clamp sense input |
| 9 | VSS | | | GND |
| 10 | NC | | | Not used |
| 11 | CDEJET | 0 | С | Loading motor eject control output |
| 12 | LOAD | 0 | С | Loading motor load control output |
| 13 | CONT | 0 | С | Servo driver power supply control output |
| 14 | NC | | | Not used |
| 15 | CDMUTE | 0 | С | CD mute control output |
| 16 | DEEM | 0 | С | Emphasis control output |
| 17 | ADENA | ō | Ċ | A/D reference voltage control output |
| 18-23 | NC . | | | Not used |
| 24 | VSS | | † | GND |
| 25 | NC NC | | | Not used - |
| 26 | BMUTE | 0 | С | Bus mute output |
| | NC | ļ <u> </u> | - | Not used |
| 27-30 | | 1/0 | c | P-BUS reception enable input/output |
| 31 | BRXEN | | | |
| 32 | BSRQ | 0 | <u>C</u> | P-BUS serial pole request output |
| 33 | VDCONT | 0 | C | VD power supply control output |
| 34 | CD5VON | 0 | C | CD +5V power supply control output |
| 35 | RESET | 11 | ļ | Reset input |
| 36 | TXARI | | | +5V |
| 37 | CSENS | 1 | ļ | Flap close sense input |
| 38 | BRST | 1 | | P-BUS reset input |
| 39 | CMPARI | 11 | | VSS |
| 40 | VDD | | | +5V |
| 41 | X2 | 0 | <u> </u> | Crystal oscillator connection pin |
| 42 | X1 | <u> </u> | | Crystal oscillator connection pin |
| 43 | IC | l | | GND |
| 44 | NC | | | Not used |
| 45 | TESTIN | 11 | | Test program start input |
| 46 | AVSS | | | A/D GND |
| 47 | TEMP | TT | | Temperature detector input |
| 48 | VDSENS | T | | VD power supply detector input |
| 49 | EJTD | i i | T | Disc eject position sense input |
| 50 | DINC | Ti | 1 | Disc insert sense input |
| 51 | NC | T . | T | Not used |
| 52 | FOK | 11 | | Focus OK signal input |
| 53 | MIRR | ti | | Mirror detector input |
| 54 | LOCK | ti | t | Spindle lock detector input |
| 55 | AVDD | † ' | | A/D analog power supply |
| 56 | AVREF | + | | A/D converter reference voltage input |
| 57 | XSI | li - | | CD LSI serial data input |
| | XSO | 10 | t c | CD LSI serial data input CD LSI serial data output |
| 58 | | | | |
| 59 | XSCK | 0 | <u> </u> | CD LSI serial clock output |
| 60 | XSTB | 0 | C | CD LSI strobe output |
| 61 | XA0 | 0 | С | Output for control signal distinguishing CD LSI data |
| 62 | VSS | | | GND |
| 63 | BDATA | 1/0 | C | P-BUS serial data input/output |
| 64 | BSCK | 1/0 | С | P-BUS serial clock input/output |

| Format | Meaning |
|--------|---------|
| С | C MOS |

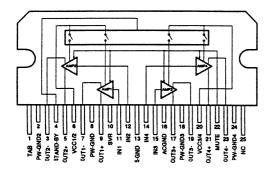




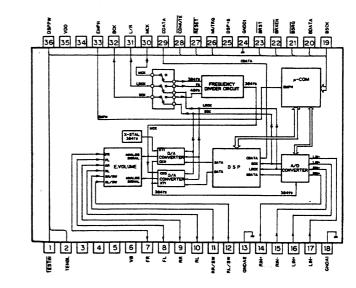
PA2024A



PAL003A

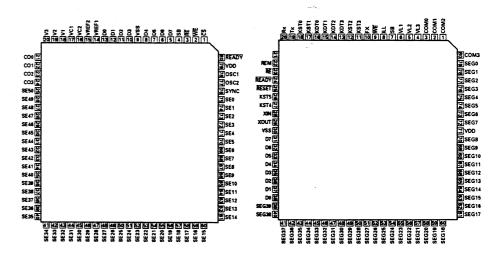


CWV1062





PD5342A



| Pin No. | Pin Name | 1/0 | Function and Operation |
|---------|----------|-----|---|
| 1 | EFM-IN | ı | EFM comparator input |
| 2 | AGC-OUT | 0 | AGC amplifier output |
| 3 | C. AGC | | Connects AGC peak detection condenser |
| 4 | RF-IN | 1 | RF signal DC component cut input |
| 5 | RF-OUT | 0 | RF amplifier output |
| 6 | RF- | 11 | RF amplifier inverted input |
| 7 | C1, 3T | | Connects RF3T component detection condenser |
| 8 | C2. 3T | | Connects RF3T component detection condenser |
| 9 | Vcc | | Power supply |
| 10 | Α | T | A signal input |
| 11 | С | TI | C signal input |
| 12 | В | 11 | B signal input |
| 13 | D | 1 | D signal input |
| 14 | F | TI | F signal input |
| 15 | E | 11 | E signal input |
| 16 | PD | 1 | APC amplifier input |
| 17 | LD | 0 | APC amplifier output |
| 18 | LDON | 1 | Laser diode ON/OFF input |
| 19 | VREF-OUT | 0 | Reference voltage output - |
| 20 | VREF-IN | 1 | Reference voltage input |
| 21 | DET-OUT | 0 | Vibration detection circuit output |
| 22 | DET-IN | ı | Vibration detection circuit input |
| 23 | TE-OUT2 | 0 | Tracking error amplifier output (fourfold gain) |
| 24 | TE-OUT1 | 0 | Tracking error amplifier output (singlefold gain) |
| 25 | TE- | 11 | Tracking error amplifier inverted input |
| 26 | GND | | GND |
| 27 | FE- | 1 | Focus error amplifier inverted input |
| 28 | FE-OUT | 0 | Focus error amplifier output |
| 29 | C.FE | TI | Focus error signal DC component cut input |
| 30 | 3T-OUT | 0 | RF3T component output |
| 31 | MIRR | 0 | MIRR signal output |
| 32 | RFOK | ō | RFOK signal output |
| 33 | DEFECT | Ō | DEFECT signal output |
| 34 | C. DEF | | Connects DEFECT signal detection condenser |
| 35 | EFM-OUT | 0 | EFM comparator output |
| 36 | ASY | TÍ | EFM comparator level input |
| 37 | TE-BAL | Ti | Tracking balance control |

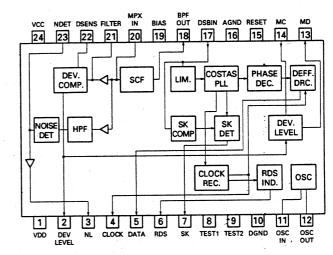
UPC2572GS

38 FE-BAL

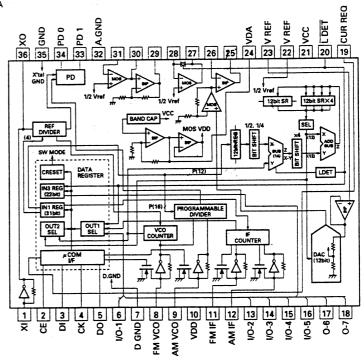
38 57 56 55 54 53 52 51 50 29 28 27 26 25 24 23 22 21 20 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

Focus balance control

*PMW001A



*PM2004A

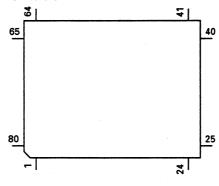


Pin Functions (UPD63702GF)

| | tions (UPD637 | | |
|---------|---------------|--|--|
| Pin No. | Pin Name | 1/0 | Function and Operation |
| 1 | D.VDD | | Supplies current of positive voltage to the logic circuits |
| 2 | RST | 1 | System reset input pin |
| 3 | AO | 1 | Microcomputer interface |
| | | | AO="L": STB active and set to address register |
| | | | AO="H": STB active and set to parameter |
| 4 | STB | 1 | Signal to latch serial data within the LSI |
| 5 | SCK | Ti | Clock input pin to input and output serial data |
| 6 | SO | O | Outputs serial data and status signal |
| 7 | SI | Ti Ti | Serial data input pin |
| 8 | D.GND | + | Logic circuit GND |
| 9 | X.GND | | Crystal oscillation circuit GND |
| 10 | XTAL | ╁╴ | Crystal oscillator connection pin |
| 11 | XTAL | 0 | Crystal oscillator connection pin |
| 12 | X.VDD | 10 | Supplies current of positive voltage to the crystal oscillation circuit |
| 13 | DA.VDD | | Supplies current of positive voltage to the crystal oscillation circuit |
| | | | |
| 14 | R+ | <u> 0</u> | Right channel analog audio data output pin |
| 15 | R- | 0 | Right channel analog audio data output pin |
| 16,17 | DA.GND | _ | D/A converter GND |
| 18 | <u> </u> | 0 | Left channel analog audio data output pin |
| 19 | L+ | 0 | Left channel analog audio data output pin |
| 20 | DA.VDD | | Supplies current of positive voltage to the D/A converter |
| 21 | D.VDD | 1 | Supplies current of positive voltage to logic circuit |
| 22 | FLAG | 0 | Flag output pin to indicate that audio data currently being output consists of |
| 1 | | 1 | noncorrectable data |
| 23 | WDCK | 0 | Pin to output double the frequency of LRCK |
| 24 | C16M | 0 | Pin to output the clock |
| 25 | EMPH | 0 | Output pin for the pre-emphasis data in the sub-Q code |
| 26 | DIN | 11 | Input pin for serial audio data |
| 27 | DOUT | 0 | Output pin for the serial audio data |
| 28 | SCKO | Ō | Output pin for the clock for the serial audio data |
| 29 | LRCK | 0 | Signals to distinguish the right and left channels of the audio data output |
| 23 | Litor | 1 | from DOUT. Frequency is 44.1kHz at 50% duty at normal regeneration |
| 30 | TX | 0 | Output pin for the digital audio interface data |
| 31 | ĊŤLV | 1 | Oscillation control pin for high-frequency clock generation VCO used for the |
| 3, | CILV | 1' | digital PLL upon regeneration at fast speed of 2- or 4-fold |
| | DOUT | 0 | Output point for phase comparison |
| 32 | POUT | 10 | |
| 33 | D.GND | . | GND for the logic circuit |
| 34 | vco | 1 | Input pin for the inverter |
| 35 | VCO | 0 | Output pin for the inverter |
| 36 | D.VDD | ļ | Supplies current of positive voltage to the logic circuit |
| 37 | PLCK | 0 | Pin for monitoring the bit clock |
| 38 | LOCK | 0 | Indicates "H" when the synchronized pattern detection signal matches the |
| 1 | 1 | 1 | frame counter output at the EFM recovery modulation, and "L" when they |
| L | | | don't match |
| 39 | WFCK | 0 | Minute-cycle signal for the bit clock, the signal indicates the cycle of 1 frame |
| | L | <u></u> | (approx. 7.35kHz) |
| 40 | RFCK | 0 | Minute-cycle signal for the clock, the signal indicates cycle of 1 frame |
| L | | | (approx. 7.35kHz) |
| 41 | D.GND | | GND for the logic circuit |
| 42,43 | TEST0,1 | 11 | Test pins |
| 44,45 | TM2, TM4 | 1 | Pins for controlling regeneration at fast speed of 2- or 4-fold |
| 46-49 | T4-T7 | Ti Ti | Test pins |
| 50,51 | C1D1, C1D2 | o | Output pin for indicating the C1 error correction results |
| 52-54 | C2D1-C2D3 | ő | Output pin for indicating the C2 error correction results |
| 55 | D.VDD | Ť | Supplies current of positive voltage to the logic circuit |
| 56 | SFSY | 0 | Outputs 1 word of the subcode. Generally, 1 cycle is approx 136 micro seconds |
| 57 | SBSY | 10 | The signal indicates the beginning of the subcode block. The SFSY signal is |
| 3, | 3001 | ١ | |
| L | 1 | _i | output at high level every 98 times |

| Pin No. | Pin Name | 1/0 | Function and Operation |
|---------|----------|-------|---|
| 58 | SBSO | Ö | Output pin for the subcode data |
| 59 | SBCK | 1 | Input pin for the clock signal for read-out of the subcode data |
| 60 | A.GND | | GND for the analog circuit |
| 61 | MD | 0 | Output pin for the spindle drive |
| 62 | SD | 0 | Output pin for the sled drive |
| 63 | TD | 0 | Output pin for the tracking drive |
| 64 | FD | 0 | Output pin for the focus drive |
| 65 | FBAL | 0 | Output pin for the focus balance control |
| 66 | TBAL | 0 | Output pin for the tracking balance control |
| 67 | A.VDD | | Supplies current of positive voltage to the analog circuit |
| 68 | TBC | 11 | Switches coefficient banks for the tracking filter |
| 69 | EFM | Ti | Input pin for the EFM signal |
| 70 | HOLD | TI | Input pin for the hold control signal |
| 71 | RFOK | Ti | Input pin for the RFOK signal |
| 72 | MIRR | Ti Ti | Input pin for the MIRR signal |
| 73 | A.GND | | GND for the analog circuit |
| 74,75 | VR2,1 | 1 | The signal input through these pins is digitized to 8-bit by the A/D converter, |
| 1 | | 1 | which by operation of the assigned register, can be read into the microcomputer |
| 76 | FE | I | Inputs a focus-error signal from the RF amplifier |
| 77 | TE | 1 | Inputs a tracking-error signal from the RF amplifier |
| 78 | TEC | 1 | Input pin for the tracking comparator |
| 79 | REFOUT | 0 | Output point for midpoint potential for the A/D converter for the LSI portion |
| 80 | A.VDD | | Supplies current of accurate voltage to the analog circuit |

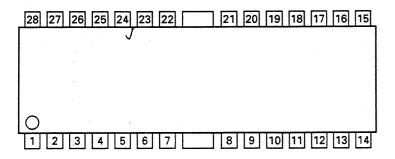




| Pin | Fun | ctions | IXL | A6997FI | 21 |
|-----|-----|--------|-----|---------|----|
| | | | | | |

| ٠. | | HOIIS (ALAUSS) | | |
|----|---------|----------------|-----|---|
| I | Pin No. | Pin Name | 1/0 | Function and Operation |
| I | 1 | OUT1-A | 0 | CH1 driver output |
| I | 2 | OUT1-B | 0 | CH1 driver output |
| Ī | 3 | IN1 | 1 | CH1 input |
| Ī | 4 | IN1' | 1 | CH1 gain adjustment input |
| Ī | 5 | REG-B | | PowTr base connection pin for regulator |
| I | 6 | REG OUT | 0 | Regulator output PowTr collector connection pin |
| I | 7 | REG GND | | Regulator GND/Common circuit GND |
| Ī | 8 | BIAS | 1 | BIAS input |
| Ī | 9 | MUTE | | Mute control pin |
| Ī | 10 | REG SW | | Regulator switch pin |
| I | 11 | TEMP MON | | Humidity monitor pin |
| I | 12 | IN2 | 1 | CH2 input |
| I | 13 | OUT2-B | 0 | CH2 driver output |
| Ī | 14 | OUT2-A | 0 | CH2 driver output |
| I | 15 | GND | | GND . |
| Ī | 16 | OUT3-A | 0 | CH3 driver output |
| Ī | 17 | OUT3-B | 0 | CH3 driver output |
| Ī | 18 | IN3" | | CH3 gain adjustment pin |
| Ī | 19 | IN3' | | CH3 gain adjustment pin |
| Ī | 20 | IN3 | 1 | CH3 input |
| Ī | 21,22 | VCC | | VCC |
| Ī | 23 | IN4 | l | CH4 input |
| Ī | 24 | IN4' | | CH4 gain adjustment pin |
| - | 25 | IN4" | | CH4 gain adjustment pin |
| Ī | 26 | OUT4-B | 0 | CH4 driver output |
| Ī | 27 | OUT4-A | 0 | CH4 driver output |
| i | 28 | GND | | GND |
| | | | | |

XLA6997FP



8. ELECTRICAL PARTS LIST

NOTES:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

RS1/03/000J,RS1/00S000J

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS...

| CKS, CCS | | Part No. | *****Circuit Symbol & No. Part Name****** | Part No. |
|---|---------------------------------|--------------|--|---------------------------------|
| Circuit Symbol & No | . Part Name===== | Part No. | | |
| | | | CAPACITORS | |
| ey Board Unit | | | C 4901 4902 | CSZSR100M6R3 |
| onsists of 3 | | | C 4914 4921 | CKSQYB104K16 |
| Key Board P.C.Beard | | | C 4915 4916 4917 4919 4920 | CKSQYB473K16 |
| Switch P.C.Board | | | C 4922 | CKSQYB273K25 |
| Init Number : CVVM4471 | | | MARKETT CARREST | |
| Init Name : Key Board | | | Unit Number : CWM4531 Unit Name : Inverter Unit | |
| MISCELLANEOUS | | | MISCELLANEOUS | |
| 901 | | PD5342A | Q 640 | 2SD1864 |
| C 902 🦂 | | HD61602RH | Transformer | CTT1038 |
| 905 | • | RS-30 | | |
| 903 | | 2SC2712 | , | |
| 4901 4902 | | MA153 | RESISTORS | |
| | Chip LED | CL170FGCD | R 609 | RS 1/10S512J |
| 4903 | CHIP LED | CL170FGCD | R 621 | RS 1/10S241J |
| 4904 4905 4906 4907 | Chip LED | CL170FGCD | | - AND |
| 4908 4909 4910 4911 | Chip LED | CL170FGCD | CAPACITORS | |
| 4912 4913 | Chip LED | | an notione | |
| 4914 4915 4916 4917 | Chip LED | CL170FGCD | C 629 | CKSQYB473K1 |
| | | | | CEA100M16LL |
| 4918 4919 4920 4921 | Chip LED | CL170FGCD | C 630 | |
| 4922 4923 | Chip LED | CL170FGCD | | |
| 4924 4927 4928 4929 | Chip LED | CL170FGCD | Unit Number : CWX1923 | |
| 4926 | | MA151K | Unit Name : Tuner Amp Unit | . 1.474 |
| 4930 4931 4932 4933 | Chip LED | CL170FGCD | ANCOCI I ANCONE | |
| | • | ~ | MISCELLANEOUS | |
| 4934 4936 | Chip LED | CL170FGCD | 10. 451 | TA2050S |
| 4937 | Chip LED | CL170FGCD | IC 451 | CA0008AM |
| 901 | Inductor | LCTA4R7K453# | IC 452 | PM2004A |
| 902 903 | Inductor | LCTB2R2K2125 | IC 501 | PAL003A |
| 901 (Ceram | ic Resonator 4.9152MHz | CSS1084 | IC 551 IC 601 | PD4630A |
| | | CSG1043 | ic ovi | * |
| 5 301 ; | Switch | | IC 602 853 | S-80734ANDY |
| 902 903 904 905 | Switch | CSG1041 | IC 651 | PD4623A |
| 906 907 912 913 | Switch | CSG1043 | | PD6164A |
| 908 909 910 911 | Switch | CSG1041 | IC 701 | SC14SU69F |
| 914 915 916 917 | Switch | CSG1041 | IC 702 IC 703 | PMW001A |
| 918 919 920 921 | Switch | CSG1043 | 1 0 177 | 100 4040055 |
| | Switch | CSG1043 | IC 851 | XRA3131FS |
| 922 923 924 | | CSN1027 | IC 852 DSP Module | CWV1062 |
| 925 | Switch(Close) | | IC 921 | TPD1018F |
| 1 | EL_ | CEL1424 | IC 971 | PA2024A |
| CD901 | LCD | CAW1332 | IC 971 | NJM78M05A |
| RESISTORS | | | | 20 4 1162 |
| 120,01010 | | | Q 452 672 679 941 | 2SA1162 DTC124EK |
| R 4901 4902 | | RS1/2S222J | Q 453 454 601 | DTA114TK |
| R 4904 | | RS1/16S121J | Q 455 | IMH3A |
| R 4905 | | RS1/8S151J | Q 456 881 882 883 | |
| 1 4000 4007 4000 4000 A | 910 4911 4912 4913 4914 49 | | Q 502 | 2SC2712 |
| K 4906 4907 4908 4909 4 R 4920 4923 4955 | 2 10 72 11 72 12 72 10 73 17 73 | RS1/16S473J | | DTC124EK |
| , 4525 4525 4555 | | | Q 503 | IMH1A |
| R 4921 4922 4924 4925 4 | 926 4929 4930 4931 | RS1/16S472J | Q 551 | |
| R 4933 4957 | | RS1/16S102J | Q 651 | DTA124EK |
| | | RA3C102J | Q 671 678 | 2SC3295 |
| R 4934 | | RS1/16S102J | 0 673 | IMX1 |
| R 4935 4936 | | RA4C102J | = -:- | |
| R 4938 4942 | | MARC IVE | Q 675 911 | 2SD1760F5 |
| | | | Q 676 991 | 2SB1238 |
| * | | | | |
| R 4939 | | RS1/16S103J | | 2SC2712 |
| R 4939 R 4946 4947 4948 4949 4 | 1950 4951 4952 4959 4960 | RS1/4S151J | Q 677 | 2SC2712 DTC143TK |
| R 4939 R 4946 4947 4948 4949 4 R 4958 | 1950 4951 4952 4959 4960 | | | 2SC2712 DTC143TK 2SD1757K |

| =====Circuit Symbol & No. Part Name===== | Part No. | =====Circuit Symbol & No. Part Name===== | Part No. | Circuit Symbol & No. Part Name | Part No. | =====Circuit Symbol & No. Part Name===== | Part No. |
|---|---|---|--|---|--|--|--|
| Q 887 981 Q 951 952 953 Q 982 Q 992 D 451 881 882 883 | IMD2A 2SC2712 2SD2396 DTC124EK MA151WA | R 519 R 520 R 521 R 522 R 522 | RS1/16S472J RS1/16S561J RS1/16S102J RS1/16S103J RS1/16S152J | R 876 877 R 881 882 887 888 891 892 R 883 884 885 886 889 890 R 911 R 912 | RS1/16S184J RS1/16S821J RS1/16S223J RS1/10S101J RS1/10S682J | C 722 C 723 724 C 725 C 726 C 729 | CKSQYB103K25 CCSQCH330J50 CKSQYB471K50 CCSQCH101J50 CKSYB102K50 |
| D 502 D 601 D 602 D 671 D 672 991 | MA151WK MA151K RB705D MA153 MA151WK | R 524 R 525 526 R 527 R 528 R 529 | RS1/16S222J RS1/16S392J RS1/16S0R0J RS1/16S473J RS1/16S102J | R 921 R 941 R 952 954 957 R 953 955 956 R 964 | RS1/16S103J RS1/10S183J RS1/10S473J RS1/10S223J RS1/16S473J | C 730 C 837 838 C 839 840 C 841 C 851 852 853 854 | CSZA010K25 CEA010M50LL CKSQYB223K25 CKSQYB103K25 CCSQCH150J50 |
| D 673 D 674 D 675 D 676 677 678 D 701 | MA3047M MA3082L MA3062M MA153 MA3047M | R 530 R 532 R 533 R 534 R 535 | RS1/16S681J RS1/16S0R0J RS1/16S562J RS1/16S272J RS1/16S103J | R 981 R 962 R 964 R 991 R 992 | RD1/4PS221JL RS1/10S221J RS1/16S122J RS1/10S102J RD1/4PS102JL | C 861 866 867 872 873 881 882 885 886 8 C 863 0.22F/5.5V C 864 C 868 869 912 993 C 870 | 89 CEA100M16LL CCL1037 CKSYB105K16 CKSQYB103K25 CKSQYB102K50 |
| D 702 D 831 D 852 953 D 901 902 911 921 922 D 912 | MA151K MA151K MA151K ERA15-02VH HZSGLB1 MA151WK MA3082L | R 536 R 553 872 873 874 875 R 555 R 604 R 606 607 611 613 R 608 622 624 861 862 893 944 973 R 610 612 | RS1/16S332J RS1/16S331J RS1/16S101J RA3C221J RS1/16S682J RS1/16S102J RS1/16S221J | CAPACITORS C 451 452 702 711 983 C 453 601 602 603 605 704 709 C 454 457 458 459 707 716 855 858 859 86 C 455 456 460 461 462 463 556 560 835 83 C 464 465 | 6 CEA010M50LL CKSQYB102K50 | C 878 C 880 C 883 884 887 888 891 892 C 890 992 C 893 C 894 895 C 913 972 974 | CCSQCH101J50 CSZSR100M10 CCSQCH221J50 CEA100M16LL CCSQCH221J50 CKSYB105K16 CEA470M10LL |
| D 952 D 971 D 982 L 501 Ferri-Inductor L 502 503 601 602 Ferri-Inductor L 504 Resistor | MA3075H MA151WK HZS9LB1 CTF-157 LAU2R2K RS1/16S0R0J | R 617 R 623 R 627 631 632 652 654 659 664 666 677 70 R 628 R 635 637 639 669 R 638 | RA4C681J RS1/16S124J 7 RS1/16S473J RA3C473J RS1/16S5473J RS1/16S5993J | C 501 504 508 513 515 517 521 671 701 71 C 502 C 503 C 506 518 530 C 507 | 8 CKSQYB103K25 CKSQYB223K25 CEAR47M50LL CEA220M6R3LL CKSQYB104K16 | C 921 C 951 C 973 C 975 330µF/10V C 976 C 981 | CKSQYB473K50 CKSQYB103K50 CEA101M10LL CCH1181 CKSQYB102K50 CEA101M10LS |
| L 651 671 701 851 Ferri-Inductor Inductor L 703 Inductor -L 852 853 Inductor L 941 Ferri-Inductor TC 601 Trimmer | LAU2R2K LCTB2R2K3216 LCTB1R0K3216 LAU2R2K CCG-070 | R 662 R 667 668 705 711 712 717 R 672 673 R 674 R 675 | RN1/10SE203D RS1/16S681J RS1/16S224J RS1/16S224J RS1/16S204J | C 510 512 C 514 512 C 514 524 529 611 652 674 675 C 519 523 526 862 C 520 | CCSQCH150J50 CEA330M10LL CCSQCH101J50 CKSQYB103K25 | C 982 C 991 470µF/16V Unit Number : CWE1416(DEH-P825R/EW) Unit Name : FM/AM Tuner Unit | CKSYB105K16 CCH1183 |
| TH 651 Thermistor X 501 Crystal Resonator 7.200MH X 601 Resonator 6.291456MHz X 651 Resonator 8.380MHz | CCX1031 z CSS1379 CSS1303 CSS1354 | R 679 R 680 R 682 R 685 820 972 | RD1/4PS681JL RS2P100JL RS1/ZS681J RS1/16S104J | C 522 4.7µF/16V C 525 4.7µF/16V C 527 C 528 | CCH1165 CCH1165 CKLSR473K16 CEA220M10LL | MISCELLANEOUS IC 1 IC 2 O 1 31 165 202 | PA4023A PA4024A 2SC2412KLN |
| X 701 Crystal Resonator 4.332MH S 601 Switch(Reset) IL 671 Lamp 14V/40mA VR 701 Semi-fixed 2.2kΩ(B) FU 671 IC Protecter 0.4A | CSG1046 CEL1150 CCP1123 ICP-N10 | R 688 R 689 694 R 690 692 R 691 693 R 701 714 | RS1/8S222J RS1/10S222J RS1/8S472J RS1/10S472J RA3C681J | C 532 534 C 533 C 535 C 536 537 C 538 | CCSQCH101J50 CKSQYB152K50 CKSQYB223K25 CKSQYB103K25 CKSQYB103K25 | Q 2 154 203 Q 3 Q 201 D 4 D 5 7 8 | DTC124EU 3SK263 2SK932 1SV251 KV1410 |
| FM/AM Tuner Unit EF 901 EM Filter 8Z 601 Buzzer RESISTORS | CWE1416 CCG1006 CPV1011 | R 702 R 703 R 704 708 R 709 R 710 | RS1/16S0R0J RS1/16S101J RS1/16S6881J RS1/16S562J RS1/16S522J | C 541 543 C 542 C 544 545 C 546 547 C 548 | CCSQCH101J50 CCSQCH101J50 CCSQCH101J50 CKSQYB102K50 CKSQYB103K25 | D 6 201 202 D 231 L 2 4 L 3 Inductor | MA157 SVC253 CTC1108 LCTB2R2K2125 |
| R 451 452 R 453 R 454 468 505 507 651 653 663 665 681 68 R 455 456 464 465 469 470 487 488 489 50 R 457 458 504 601 602 603 605 615 616 62 | 1 RS1/16S102J | R 713 735 894 993 R 724 R 725 R 728 729 | RS1/16S473J RS1/16S102J RA3C102J RS1/10S102J | C 549 C 551 552 553 554 C 555 C 557 C 558 911 1000µF/16V | CKSQYB332K50 CKSYB224K16 CEA330M16LL CEA220M16LL CCH1149 | L 5 Coil L 6 Inductor L 51 Ferri-Inductor L 201 Ferri-Inductor L 202 Ferri-Inductor | CTC1107 LCTBR15K1608 LAU150K LAU4R7K LAU330K |
| R 459 463 466 625 686 736 841 842 870 87 R 460 461 503 508 511 512 513 614 678 68 R 462 467 R 471 472 731 R 473 551 552 554 661 671 676 684 | 1 RS1/16S223J 3 RS1/16S472J RS1/16S181J RS1/16S333J RS1/16S103J | R 730 R 732 R 734 R 738 | RS1/16S0R0J RS1/10S181J RS1/16S102J RS1/16S223J RS1/16S104J | C 559 3300µF/16V C 561 971 C 571 572 573 574 575 576 714 C 604 856 C 606 651 | CCH1150 CKSQYB104K50 CKSQYB222K50 CEA2R2M50LL CEA4R7M35LL | L 203 Inductor L 208 Inductor L 231 Inductor T 31 Coil T 51 Coil | CTF1287 LAU121K LAU3R3J CTE1116 CTC1136 |
| R 484 571 572 573 574 575 576 655 656 65 R 502 R 506 733 R 509 706 R 510 | 8 RS1/16S681J RS1/16S472J RS1/16S222J RS1/16S0R0J RS1/16S473J | R 837 838 R 839 840 R 843 844 R 845 | RS1/16S332J RS1/16S222J RS1/16S224J RS1/16S824J RS1/16S303J | C 607 C 608 610 C 609 C 672 470µF/16V | CKSQYB103K25 CCSQCH330J50 CCSQCH120J50 CCH1183 | TC 1 Trimmer CF 51 52 53 Ceramic Filter CF 232 Ceramic Filter X 151 Ceramic Resonator 920.5k | CCL 1042 CTF1292 CTF1348 Hz CSS1365 |
| R 514 R 515 R 516 R 517 R 518 | RS1/16S105J RS1/16S102J RS1/16S682J RS1/16S472J RS1/16S682J | R 853 854 R 855 856 R 857 858 R 866 867 868 869 942 943 971 974 983 | RS 1/165363J RS 1/165513J RS 1/165224J RS 1/165472J | C 705 706 C 708 715 C 710 C 712 C 713 C 720 | CCSQCH270J50 CKSQYB103K25 CKSQYB472K50 CSZS010M16 CKSYB104K16 CEA4R7M16NPLL | X 231 Crystal Resonator 10.26MI VR 154 Semi-fixed 68kΩ(B) AR 1 Capacitor with Discharge Gap | CCP1211 DSP-201M |

| =====Circuit Symbol & No. Part Name===== | Part No. | =====Circuit Symbol & No. Part Name===== | Part No. | 6 | =====Circuit Symbol 8 | k No. Part Name | Part No. | Parametricuit Symbol & No. Part Name | art No. |
|--|-------------------------------|--|------------------------------|---|-----------------------|---------------------------|----------------------------|--------------------------------------|------------------------------|
| RESISTORS | | C 16 | CCSRCH080D50 | × | L 201 | Ferri-Inductor | LAU4R7K | CAPACITORS | |
| | | Ç 21 | CEA100M16LL | | L 202 | Ferri-Inductor | LAU330K | • | CSQCH060D50 |
| R 1 | RS 1/16S0R0J | C 22 | CCSRTH090D50 | | L 203 | Inductor | CTF1287 | • | CSRCH000D50 |
| R 4 | RS1/16S154J RS1/16S391J | C 23 C 24 | CCSRTH120J50 CCSRCH471J50 | | L 208 | Inductor | LAU121K | | CSRCH820J50 |
| R 5 R 6 10 202 | RS1/16S223J | C 24 | CCSRCH#/ IJ30 | | L 231 | Inductor | LAU3R3J | r é | CSRCH820J50 |
| R 7 243 247 | RS 1/16S 123J | C 32 | CKSQYB472K50 | | T 31 | Coil | CTE1116 | C 8 18 25 31 52 59 62 105 107 213 CM | KSRYB103K25 |
| 1 7 240 247 | | C 33 | CCSRCH050C50 | | T 31 T 51 | Coil | CTC1136 | * * | |
| R 8 17 | RS1/16S332J | C 36 | CCSRRH201J50 | | CF 51 52 53 | Ceramic Filter | CTF1290 | | KSQYB104K16 |
| R 9 | RS 1/16S473J | C 51 | CKSRYB223K25 | | CF 232 | Ceramic Filter | CTF1348 | C 10 | CSRCHOR5C50 |
| R 11 | RS1/16S124J | C 54 | CCSRCH470J50 | | X 151 | Ceramic Resonator 920.5kd | 1z CSS1365 | | EA010M50LL KSRYB222K50 |
| R 13 R 15 | RS 1/16S563J RS 1/16S27 1J | C 55 | CKSQYB223K25 | | | | | | CSRCH220J50 |
| n 13 | 1101/1002/10 | C 57 | CKSRYB472K50 | | X 231 | Crystal Resonator 10.26Mi | CCP1211 | C 14 | |
| R 16 | RS1/16S104J | C 58 234 | CEA330M 10LL | | VR 154 | Semi-fixed 68kΩ(B) | CCF1211 | | CSRCH060D50 |
| R 18 | RS1/16S332J | C 61 | CCSRCH270J50 | | RESISTORS | | | C 16 CC | CSRCH080D50 |
| R 31 | RS1/16S470J | C 63 | CEAR15M50LL | | 1125.0151.0 | | | | EA 100M16LL CSRTH090D50 |
| R 32 215 R 33 | RS 1/16S822J RS 1/16S822J | C 101 | CEA100M10NPLL | | R 1 2 | | RS1/16S225J | C 22 | CSRTH120J50 |
| n 33 | NS I/ 1036223 | C 102 | CKSRYB182K50 | | R 4 | | RS1/16S154J RS1/16S391J | C 23 | J31111120030 |
| R 34 35 | RS1/16S331J | C 103 | CKSRYB682K25 | | R 5 | | RS1/16S391J RS1/16S223J | C 24 | CSRCH471J50 |
| R 51 | RS1/16S271J | C 104 | CEA2R2M50LL | | R 6 10 202 R 7 247 | | RS1/16S123J | C 26 C | CSRCH101J50 |
| R 52 | RS1/16S560J | C 106 | CCSRCH151J50 | | R / 24/ | | 1131/1031250 | r 32 CI | KSQYB472K50 |
| R 55 | RS1/16S102J | | | ſ | R 8 17 | | RS1/16S332J | C 33 | CSRCH050C50 |
| R 56 | RS1/16S823J | C 151 | CKSRYB472K50 | | R 9 | | RS1/16S473J | C 36 | CSRRH201J50 |
| R 61 | RS1/16S392J | C 153 157 - C 154 | CEA3R3M50LL CKSQYB104K16 | | R 11 | | RS1/16S124J | , | KSRYB223K25 |
| R 62 152 | RS 1/16S393J | C 154 C 158 | CKSYB474K16 | | R 13 | | RS1/16S563J | C 51 C 54 | CSRCH470J50 |
| R 101 | RS 1/16S272J | C 159 | CEA220M6R3LL | | R 15 | | RS1/16S271J | C 55 C | KSQYB223K25 |
| R 102 | RS1/16S682J | | | | R 16 | | RS1/16S104J | C 57 | KSRYB472K50 |
| R 103 | RS 1/16S333J | C 161 209 | CKSQYB104K16 | | R 18 | | RS1/16S332J | C 58 234 | EA330M10LL |
| | Distroposts | C 162 | CEA3R3M50LL | | R 31 | | RS1/16S470J | _ | W COVE 100VE0 |
| R 104 R 105 | RS 1/16S334J RS 1/16S683J | C 163 C 170 202 | CKSRYB102K50 CCSRCH100D50 | | R 32 215 | | RS1/16S822J | | KSRYB102K50 KSRYB102K50 |
| R 107 | RS1/16S222J | C 201 250 | CCSRCH471J50 | | R 33 | | RS1/16S822J | | EAR22M50LL |
| R 151 | RS1/16S222J | 0 20. 200 | 00011011771000 | | R 34 35 | | RS1/16S331J | C 101 | EA 100M 10NPLL |
| R 154 239 | RS1/16S104J | C 203 235 | CKSRYB332K50 | | R 34 35 R 51 | | RS1/16S271J | | KSRYB182K50 |
| | | C 204 205 236 244 | CKSQYB473K16 | | R 52 | | RS1/16S560J | | |
| R 155 | RS1/16S273J | C 206 233 | CKSQYB104K16 | | R 55 | | RS1/16S102J | | KSRYB682K25 EA2R2M50LL |
| R 156 R 157 | RS1/16S243J RS1/16S203J | C 207 · C 211 | CCSRCH560J50 CCSRCH101J50 | - | R 56 | | RS1/16S823J | | CSRCH151J50 |
| R 160 | RS 1/16S223J | C 211 | CCSRCH 10 1350 | | | | DC44000001 | | KSRYB472K50 |
| R 161 | RS 1/16S563J | C 212 | CEA470M6R3LL | | R 61 R 62 | | RS1/16S392J RS1/16S273J | | EA3R3M50LL |
| | | C 216 | CCSRCH101J50 | | R 62 R 101 | | RS1/16S272J | | |
| R 162 | RS1/16S105J | C 217 | CEA1R5M50LL | | R 102 | | RS1/16S682J | | KSQYB104K16 |
| R 163 R 203 | RS1/16S222J RS1/16S225J | C 219 C 220 230 | CCSRCH471J50 CKSRYB103K25 | | R 103 | | RS1/16S333J | | KSYB474K16 EA220M6R3LL |
| R 204 | RS1/16S225J | C 220 230 | CKSKYB103K25 | | | | | C 159 C 161 209 | KSQYB104K16 |
| R 206 | RS 1/16S 220J | C 231 | CCSRCH330J50 | | R 104 | | RS1/16S334J RS1/16S683J | C 162 | EA3R3M50LL |
| | | C 232 | CCSRCH150J50 | | R 105 R 107 | | RS1/16S222J | | |
| R 207 | RS1/16S101J | - C 237 | CCSRCH180J50 | | R 151 | | RS1/16S222J | | KSRYB102K50 |
| R 208 217 | RS1/16S102J | C 239 | CKSRYB472K50 | (| R 152 | | RS1/16S393J | | CSRCH100D50 |
| R 209 R 214 | RS 1/16S471J RS 1/16S822J | C 240 242 | CEAR47M50LL | | | | | C 20, 230 | CSRCH471J50 CKSRYB332K50 |
| R 231 | RS 1/16S272J | C 243 | CEAR33M50LL | _ | R 239 | | RS1/16S104J | | XSQYB473K16 |
| n 201 | 1131/1032/23 | C 245 | CKSRYB123K25 | | R 155 | | RS1/16S273J RS1/16S243J | C 204 205 236 244 | KOQ1D47OK10 |
| R 232 | RS1/16S473J | C 246 | CKSQYB473K16 | | R 156 R 157 | | RS1/16S243J | | KSQYB104K16 |
| R 237 | RS1/16S103J | | | | R 160 | | RS1/16S222J | C 207 | CSRCH560J50 |
| R 238 | RS1/16S104J | Unit Number: CWE1417(DEH-P825/UC,P823/ES,D | DEX-P99/UC) | | | | | G 211 | CSRCH101J50 |
| R 240 R 241 | RS 1/16S332J RS 1/16S202J | Unit Name : FM/AM Tuner Unit | | | R 161 | | RS1/16S563J | · ··· | CEA470M6R3LL CCSRCH101J50 |
| n a+t | no ir igozuzu | MISCELLANEOUS | | | R 162 | | RS1/16S105J | C 216 | COUCH 10 1930 |
| R 244 | RS1/16S103J | | | | R 163 R 203 | | RS1/16S223J RS1/16S225J | | CEA1R5M50LL |
| • | | IC 1 IC 2 | PA4023A | | R 203 R 204 | | RS1/16S22SJ RS1/16S103J | C 219 | CCSRCH471J50 |
| CAPACITORS | | IC 2 | PA4024A | | | | | C 220 230 | CKSRYB103K25 |
| r 1 | CCSQCH060D50 | Q 1 31 202 | 2SC2412KLN | | R 206 | | RS1/16S220J | | CCSRCH330J50 |
| C 1 C 2 | CCSQCH060U50 CCSRCH020C50 | Q 2 203 Q 3 | DTC124EU 3SK263 | | R 207 | | RS1/16S101J | C 232 | CCSRCH150J50 |
| C 4 | CCSRCH820J50 | <u></u> | 337443 | | R 208 217 | | RS1/16S102J RS1/16S471J | C 237 | CCSRCH180J50 |
| C 6 | CCSRCH820J50 | Q. 201 | 2SK932 | | R 209 | | RS1/16S822J | | CKSRYB472K50 |
| C 8 18 25 31 52 59 62 105 107 2 | | D 1 2 | RD39JS | | R 214 | | NO 1/ 1000440 | C 240 242 | CEAR47M50LL |
| | | D 4 | 1SV251 | | R 231 | | RS1/16S272J | C 243 | CEAR33M50LL |
| C 9 34 56 152 160 241 C 10 | CKSQYB104K16 | D 5 7 8 | KV1410 | | R 232 | | RS1/16S473J | C 245 | CKSRYB183K25 |
| C 10 C 11 | CCSRCHOR5C50 CEA010M50LL | D 6 201 202 | MA157 | | R 237 | | RS1/16S103J | | CKSQYB473K16 |
| C 12 13 17 19 20 | CKSRYB222K50 | D 231 | SVC253 | | R 238 | | RS1/16S104J | C 246 | WOULDAY OF ID |
| C 14 | CCSRCH220J50 | L 2 4 | CTC1108 | | R 239 | | RS1/16S104J | | |
| | · · · - | L 3 inductor | LCTB2R2K2125 | _ | R 240 | | RS1/16S332J | | |
| | | L 5 Coil | CTC1107 | | R 241 | | RS1/16S202J | • | |
| | | L 51 Ferri-Inductor | LAU150K | | R 243 | | RS1/16S183J | | |
| | | | | | R 244 | | RS1/16S472J | | |
| | | | | | | | | | |

| ====Circuit Symbol & | No. Part Name==== | Part No. | ====Circuit Symbol & No | . Part Name===== | Part No. |
|----------------------|---------------------|------------------------------|--|------------------------|------------------------------|
| | | | C 203 | | CKSQYB104K16 |
| Init Number : CWX19 | /64 | | C 303 | | CEV470M16 |
| Init Name : Contro | Onk | | C 303 C 305 306 | | CKSRYB103K25 |
| ISCELLANEOUS | | | C 501 | | CCSRCH221J50 CKSRYB471K50 |
| | | UPC2572GS | C 502 | • | |
| 101 | | UPD63702GF | C 602 | | CKSQYB104K16 |
| 201 301 | | XLA6997FP | | 22μF/6.3V | CCH1233 |
| 302 | | XRA6285FP | C 901 903 | | CCSRCH471J50 CCSRCH271J50 |
| 701 | | PQ05TZ51 | C 902 | | CCSRCH2/1J50 |
| | | 2SD1664 | C 904 | | 00011011101000 |
| 1 101 1 102 | | UMD2N | Unit Number : | | |
| 701 702 | | 1SR154-400 | Unit Name : Detector P. | C.Board | |
| 801 802 | LED | CL200IRX CSN1028 | 0 1 2 | Photo Transistor | CPT-230S-X |
| 801 802 | Switch(Home, Clamp) | 00111020 | Unit Number : CWX19220 | DEY_200/I IC) | |
| ESISTORS | | | Unit Name : High Outp | ut Unit | |
| 101 | | RS1/8S100J | | | |
| 102 | | RS1/8S120J | MISCELLANEOUS | | |
| 103 | | RS1/16S102J | IC 4151 4251 4351 | | NJM4558MD |
| 104 | | RS 1/16S822J RS 1/16S682J | Q 4151 | <i>3</i> * | IMH3A |
| 105 | | N3 1/ 103002J | Q 4251 4351 | | IMH3A |
| 400 | - | RS1/16S183J | D 4151 4251 4351 | • | MA151WA |
| 106 107 | | RS1/16S822J | = | DC-DC Converter Unit | CWM4538 |
| 107 108 | | RS1/16S333J | | | |
| 109 | | RS1/16S683J | | | |
| 110 | | RS1/16S134J | RESISTORS | | |
| | | RS1/16S273J | R 4051 | * | RD1/2PS271JL |
| 111 112 | | RS1/16S222J | R 4151 4351 4352 | | RS1/10S473J |
| 113 114 | | RS1/16S103J | R 4152 | | RS1/16S473J RS1/16S103J |
| 115 | | RS1/16S102J | R 4153 4154 4156 4253 42 R 4155 4254 4256 | 55 4353 4354 4355 4356 | RS1/10S103J |
| 1 116 117 | | RS1/16S163J | K 4155 4254 4250 | | |
| 201 | | RS1/16S104J | R 4157 4257 4258 4357 43 | 58 | RS1/10S821J RS1/16S821J |
| 202 | | RS1/16S473J | R 4158 R 4159 4160 4259 4260 43 | ED 4360 | RS1/10S223J |
| R 304 | | RS1/16S0R0J RS1/16S222J | R 4251 4252 | 33 4360 | RS1/16S473J |
| R 502 R 503 | | RS 1/16S0R0J | | | |
| n 303 | | | CAPACITORS | | |
| R 504 | | RS1/16S102J RS1/16S102J | C 4053 | | CSZSC100M16 |
| R 505 | | RAAC102J | C 4151 4152 4351 4352 | | CEA2R2M50LL |
| R 507 R 508 | | RA4C681J | C 4153 4254 | | CEA100M16LL |
| R 510 | | RS1/10S0R0J | C 4154 4253 4353 4354 | | CEA100M16LS CKSYB105K16 |
| | | RS1/8S751J | C 4155 4156 | | CKSTB105K10 |
| R 801 802 | | KS 1/85/313 | C 4157 4158 | | CKSQYB823K2 |
| CAPACITORS | | | C 4251 4252 | | CEA2R2M50LS |
| LAPACITORS | | | C 4255 4256 4355 4356 | | CCSQCH221J5 CCSQCH820J5 |
| C 101 601 703 | | CEV101M6R3 | C 4257 4357 4358 | | CCSQCH820J5 |
| C 102 | | CKSQYB104K16 CEV470M6R3 | C 4258 | | 555 555 |
| C 103 | | CKSYB334K16 | Unit Number : CWM453 | 8(DEX-P99/UC) | |
| C 104 C 105 | ` | CCSRCH330J50 | Unit Name : DC-DC Co | onverter Unit | |
| C 106 304 | | CKSRYB103K25 | MISCELLANEOUS | | |
| C 106 304 | | CEV4R7M35 | | | TL1451ANS |
| C 108 | * | CKSQYB273K50 | IC 4001 | | 2SA1797 |
| C 109 | | CCSRCH101J50 | Q 4001 Q 4002 | | 2SC2812 |
| C 110 202 | | CKSQYB104K16 | Q 4003 | | 2SA1179 |
| C 111 | | CKSRYB332K50 | Q 4004 | | 2SA1576 |
| C 112 | | CKSQYB473K16 | 0.445 | | DTC124EU |
| C 113 | | CKSRYB103K25 | Q 4005 D 4001 | | SC802-06 |
| C 114 C 115 | | CKSRYB391K50 CCSRCH121J50 | L 4001 4002 4003 | Choke Coil 220H | CTH1164 |
| L 113 | | | | | |
| C 116 | | CKSRYB682K25 CKSRYB333K16 | RESISTORS | | |
| C 117 C 118 201 | | CKSYB334K16 | R 4001 | | RS1/10S122J |
| C 118 201 C 119 | | CKSYB334K16 | R 4002 | | RS1/10S473J |
| C 120 121 702 | | CKSYB334K16 | R 4003 | | RS1/4S681J |
| - 120 121 102 | | | R 4004 | | RS1/10S101J |
| C 122 124 | | CKSQYB104K16 | R 4005 | | RN1/10SE333 |
| C 123 | | CKSRYB472K50 CCSRCH060D50 | R 4006 | | RN1/10SE123 |
| C 125 | | CCSRCH060D50 CKSRYB153K25 | R 4007 | | RS1/10S104J |
| | | | R 4008 | | RN1/10SE622 |
| C 126 | | CCSRCH102J25 | N 4000 | | |
| | | CCSRCH102J25 | R 4009 4010 | | RS1/10S223J RS1/10S101J |

| Circuit Symbol & No. Part Name | Part No. | **** | =Circuit Symbol & | No. Part Name | Part No. |
|--------------------------------|--------------|-------|---------------------|--------------------------|--------------|
| R 4012 4013 | RN1/10SE103D | C 401 | 3 | | CKSQYB104K25 |
| R 4016 | RS1/10S754J | | | | |
| R 4017 | RN1/10SE912D | Misce | illaneous Parts Lis | t | |
| R 4018 | RN1/10SE153D | | | | |
| R 4019 | RN1/10SE303D | | | PU Unit | CGY1070 |
| | | M | 1 | Motor Unit(Spindle) | CXA9101 |
| CAPACITORS | | M | 2 | CRG Motor Unit(Carriage) | CXA8986 |
| | | M | 3 | Load Motor Unit(Loading) | CXA8702 |
| C 4001 4003 4006 4008 33uF/25V | CCH1249 | | - | | |
| C 4002 4005 4009 4010 4014 | CKSQYB102K50 | | | | |
| C 4004 | CCSQCH101J50 | | | | |
| C 4011 | CKSQYF105Z16 | | | | |
| C 4012 | CCSQCH221J50 | | | | |

● The DEH-P825/UC, DEH-P823/ES, and DEX-P99/UC Parts Lists enumerate the parts which differ from those enumerated in the DEH-P825/UC Parts List only. The parts other than those enumerated in the former are identical with those in the latter, to which you are requested to refer, accordingly. The DEH-P825R/EW Parts List is given on page 29.

| Tuner Amp Unit(1/3) | | | · · · · · · | |
|----------------------|---------------------|--------------------|------------------|--------------------|
| | DEH-P825R/EW | DEH-P825/UC | DEH-P823/ES | DEX-P99/UC |
| Circuit Symbol & No. | Part No. | Part No. | Part No. | Part No. |
| IC551 | PAL003A | :PAL003A | PAL003A | •••• |
| IC601 | PD4630A | PD4629A | PD4630A | PD4629A |
| IC701 | PD6164A | PD6165A | **** | PD6165A |
| IC702 | SC14SU69F | •••• | | •••• |
| IC703 | PMW001A | ***** | ***** | ***** |
| | | | | |
| IC704 | •••• | PD4633A | | PD4633A |
| IC931 | •••• | •••• | •••• | TPD1018F |
| Q551 | IMH1A | IMH1A | IMH1A | •••• |
| Q701 | DTC143TK | •••• | •••• | •••• |
| Q834,835 | 2SD1757K | | •••• | •••• |
| | | 1 | | <u>'</u> |
| Q881-883 | IMH3A | ІМНЗА | IMH3A | •••• |
| Q941 | 2SA1162 | •••• | 2SA1162 | •••• |
| Q961 | •••• | | ***** | IMD2A |
| Q962 | **** | ••••• | •••• | 2SC2712 |
| D701 | MA3047M | l | | ••••• |
| | | | | 1 |
| D702,831 | MA151K | | ••••• | •••• |
| D881-883 | MA151WA | MA151WA | MA151WA | •••• |
| D931,932,961,962 | ***** | •••• | ••••• | ERA15-02VH |
| D941 | MA151WK | •••• | MA151WK | ••••• |
| D964 | **** | | ***** | BR4361F |
| | | | | |
| L701 | LAU2R2K | LAU2R2K | •••• | LAU2R2K |
| L702 | •••• | LAU2R2K | •••• | LAU2R2K |
| L703 | LCTB2R2K3216 | | •••• | ••••• |
| L941 | LAU2R2K | **** | LAU2R2K | l |
| L961 | •••• | , | ••••• | LAU2R2K |
| | | , | | |
| X701 | CSS 1056 (4.332MHz) | CSS1338 (4.330MHz) | •••• | CSS1338 (4.330MHz) |
| VR701 | CCP1123 | **** | •••• | •••• |
| FM/AM Tuner Unit | CWE1416 | CWE1417 | CWE1417 | CWE1417 |
| High Output Unit | **** | ***** | •••• | CWX1922 |
| R502 | RS1/16S472J | •••• | •••• | •••• |
| | | | 1 | |
| R509 | RS1/16S0R0J | RS1/16S0R0J | •••• | RS1/16S0R0J |
| R514 | RS1/16S105J | RS1/16S105J | •••• | RS1/16S105J |
| R528 | RS1/16S473J | RS1/16S0R0J | RS 1/16S0R0J | RS1/16S0R0J |
| R551,552,554 | RS1/16S103J | RS1/16S103J | RS1/16S103J | **** |
| R553 | RS1/16S331J | RS1/16S331J | RS1/16S331J | |
| | 1 110 1/ 10000 10 | 1 NO 1/ 10000 IJ | 1 42 1/ 10222 17 | |

| Tuner An | np U | Init(| 2/3) |
|----------|------|-------|------|
| | | | |

| Tuner Amp Unit(2/3) | | | | DEV 000710 |
|--------------------------|--------------|-----------------|---------------|--------------|
| | DEH-P825R/EW | DEH-P825/UC | DEH-P823/ES | DEX-P99/UC |
| Circuit Symbol & No. | Part No. | Part No. | Part No. | Part No. |
| R555 | RS1/16S101J | RS1/16S101J | RS1/16S101J | |
| R601-603 | RS 1/16S473J | RS1/16S473J | **** | RS1/16S473J |
| R614 . | RS1/16S472J | RS1/16S472J | ••••• | RS1/16S472J |
| R615 | RS1/16S473J | RS1/16S473J | **** | ••••• |
| R632 | RS1/16S473J | RS1/16S473J | RS1/16S563J | RS1/16S433J |
| | | | | |
| R633 | •••• | •••• | RS1/16S433J | RS1/16S563J |
| R634 | ••••• | •••• | •••• | RS1/16S683J |
| R635 | RS1/16S473J | RS1/16S473J | RS1/16S473J | RS1/16S303J |
| R636 | •••• | ***** | ***** | RS1/16S473J |
| R637 | RS1/16S473J | RS1/16S473J | RS1/16S473J | •••• |
| 11007 | 1101,1004,00 | 110 1, 100 1700 | 1.0 1, 100 11 | |
| R639 | RS1/16S473J | RS1/16S473J | | RS1/16S473J |
| | RA3C681J | **** | **** | **** |
| R701 | | ***** | **** | •••• |
| R702 | RS1/16S0R0J | ł | **** | ***** |
| R703 | RS1/16S101J | ••••• | 1 | |
| R704 | RS1/16S681J | RS1/16S681J | ***** | RS1/16S681J |
| | | | | B044400000 |
| R705,712 | RS1/16S681J | RS1/16S681J | •••• | RS1/16S681J |
| R706 | RS1/16S0R0J | •••• | **** | ••••• |
| R707 | RS1/16S473J | •••• | | **** |
| R708 | RS1/16S681J | ***** | | ***** |
| R709 | RS1/16S562J | •••• | **** | •••• |
| | • | | | |
| R710 | RS1/16S222J | RS1/16S0R0J | **** | RS1/16S0R0J |
| R711,717 | RS1/16S681J | ***** | •••• | **** |
| R713,735 | RS1/16S473J | RS1/16S473J | ***** | RS1/16S473J |
| R714 | RA3C681J | RA3C681J | •••• | RA3C681J |
| | MA3C0013 | RS1/16S473J | | RS1/16S473J |
| R718-722,748-751 | | NO 1/1004/33 | | NS 1/1034/33 |
| D704 | DC4/4CC4001 | | | •••• |
| R724 | RS1/16S102J | | | •••• |
| R725 | RA3C102J | •••• | | |
| R728,729 | RS1/10S102J | •••• | **** | ••••• |
| R730 | RS 1/16S0R0J | •••• | **** | **** |
| R731 | RS 1/16S333J | **** | **** | **** |
| | | | | |
| R732 | RS1/10S151J | •••• | **** | ••••• |
| R733 | RS1/16S222J | •••• | **** | •••• |
| R734 | RS1/16S102J | | **** | **** |
| R736 | RS1/16S223J | •••• | •••• | •••• |
| R738 | RS 1/16S223J | | **** | •••• |
| 1.755 | | | | |
| R752-764,766-768,770 | •••• | RS1/16S102J | •••• | RS1/16S102J |
| | •••• | RS1/10S102J | ***** | RS1/10S102J |
| R765,769,771 | | RS1/16S102J | | RS1/16S102J |
| R772-779 | ***** | NS 1/105 102J | **** | RS1/16S102J |
| R805,806 | ••••• | | •••• | |
| R818,819 | ••••• | **** | | RS1/16S103J |
| | B044405555 | DO4/400-00: | DC4/4004004 | DC4/4004001 |
| R837,838 | RS1/16S332J | RS1/16S182J | RS1/16S182J | RS1/16S182J |
| R843,844 | RS 1/16S224J | ***** | **** | •••• |
| R845 | RS1/16S824J | ***** | **** | **** |
| R876,877 | RS1/16S184J | RS1/16S184J | RS1/16S184J | RS1/16S0R0J |
| R881,882,887,888,891,892 | RS1/16S821J | RS1/16S821J | RS1/16S821J | **** |
| | | | 1 | |
| R883-886,889,890 | RS1/16S223J | RS1/16S223J | RS1/16S223J | •••• |
| R941 | RS1/10S183J | ••••• | RS1/10S183J | **** |
| · | | | | |

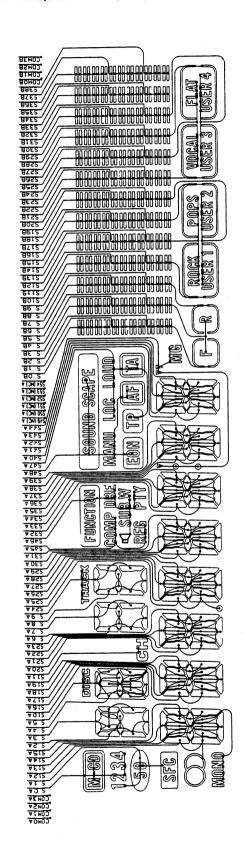
| Tuner Amp Unit(3/3 |
|--------------------|
|--------------------|

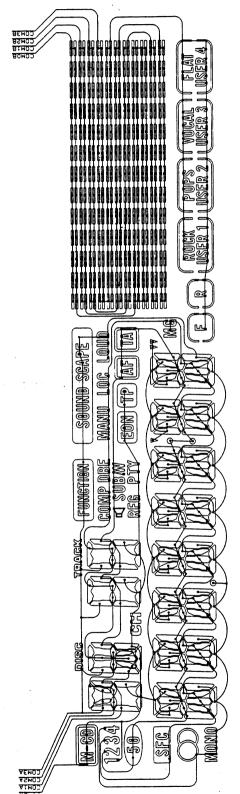
| Tuner Amp Unit(3/3) | | | DELL DODO/EC | DEX-P99/UC |
|--------------------------|---------------|--------------|--------------|--------------|
| | DEH-P825R/EW | DEH-P825/UC | DEH-P823/ES | Part No. |
| Circuit Symbol & No. | Part No. | Part No. | Part No. | rait No. |
| R942,943 | RS1/16S472J | •••• | RS1/16S472J | •••• |
| R944 | RS1/16S102J | ***** | RS1/16S102J | RS1/10S103J |
| R961 | •••• | ••••• | ••••• | |
| R962 | ••••• | •••• | ***** | RS1/10S223J |
| R963 | ***** | ***** | ***** | RS1/10S272J |
| | | | | |
| R965 | •••• | **** | ***** | RS1/10S103J |
| R966 | **** | •••• | ***** | RS1/10S102J |
| R967 | ***** | | **** | RS1/10S0R0J |
| C503 | CEAR47M50LL | ***** | •••• | •••• |
| C505 | •••• | ***** | CKSQYB103K25 | •••• |
| C505 | | | | |
| 0500 | CKSQYB152K50 | ***** | ***** | •••• |
| C533 | CKSYB224K16 | CKSYB224K16 | CKSYB224K16 | ***** |
| C551-554 | • | CEA330M16LL | CEA330M16LL | •••• |
| C555 | CEA330M16LL | CEA010M50LL | CEA010M50LL | |
| C556,560 | CEA010M50LL | | CEA220M16LL | •••• |
| C557 | CEA220M16LL | CEA220M16LL | CEAZZOWITOLL | |
| | | | CKCONBIONES | |
| C561 | CKSQYB104K50 | CKSQYB104K50 | CKSQYB104K50 | CKSQYB103K25 |
| C701 | CKSQYB103K25 | CKSQYB103K25 | •••• | |
| C702 | CKSQYB104K16 | CKSQYB104K16 | •••• | CKSQYB104K16 |
| C704 | CKSQYB102K50 | CKSQYB102K50 | ***** | CKSQYB102K50 |
| C705,706 | CCSQCH270J50 | •••• | ***** | •••• |
| 0.00,.00 | | | | |
| C707,716 | CEA100M16LL | **** | ***** | ***** |
| C708,715 | CKSQYB103K25 | ***** | ***** | •••• |
| C709 | CKSQYB102K50 | ***** | •••• | •••• |
| C710 | CKSQYB472K50 | **** | •••• | •••• |
| 1 | CKSQYB104K16 | •••• | ***** | •••• |
| C711 | CKSQTDTO+KTO | 1 | | 1 |
| 0740 | CSZS010M16 | | | •••• |
| C712 | CKSYB104K16 | •••• | | •••• |
| C713 | • | ***** | | •••• |
| C714 | CKSQYB222K50 | CEA100M16LL | | CEA100M16LL |
| C717 | ***** | CEATOONTOLL | •••• | •••• |
| C718 | CKSQYB103K25 | **** | | |
| | | | **** | |
| C720 | CEA4R7M16NPLL | **** | •••• | •••• |
| C722 | CKSQYB103K25 | ***** | 1 | ***** |
| C723,724 | CCSQCH330J50 | ***** | •••• | •••• |
| C725 | CKSQYB471K50 | ***** | •••• | •••• |
| C726 | CCSQCH101J50 | **** | •••• | ***** |
| | | | 1 | |
| C730 | CSZA010K25 | ***** | **** | ***** |
| C825,826 | •••• | ***** | •••• | CEA010M50LL |
| C839.840 | CKSQYB223K25 | CKSQYB473K16 | CKSQYB473K16 | CKSQYB473K16 |
| C841 | CKSQYB103K25 | **** | **** | ••••• |
| C881,882,885,886,889 | CEA100M16LL | CEA100M16LL | CEA100M16LL | •••• |
| 233,,002,000,201,000 | | 1 | | |
| C883,884,887,888,891,892 | CCSQCH221J50 | CCSQCH221J50 | CCSQCH221J50 | •••• |
| C890 | CEA100M16LL | CEA100M16LL | CEA100M16LL | •••• |
| | CKSYB105K16 | CKSYB105K16 | CKSYB105K16 | ***** |
| C894,895 | | | •••• | CKSQYB473K50 |
| C931 | •••• | ••••• | •••• | CKSQYB103K50 |
| C961 | | | | |

| Nev Board Unit | | | | | |
|----------------------|--------------|---|---------------|--------------|--|
| | DEH-P825R/EW | DEH-P825/UC | DEH-P823/ES | DEX-P99/UC | |
| Circuit Symbol & No. | Part No. | Part No. | Part No. | Part No. | |
| | CAW1332 | CAW1333 | CAW1333 | CAW1363 | |
| LCD901 | | • | RS1/16S102J | RS1/16S473J | |
| D 403E 403E | RS1/16S102J | RS1/16S102J | NS 1/105 1025 | N3 1/1034733 | |

9. LCD

CAW1332(DEH-P825R/EW)

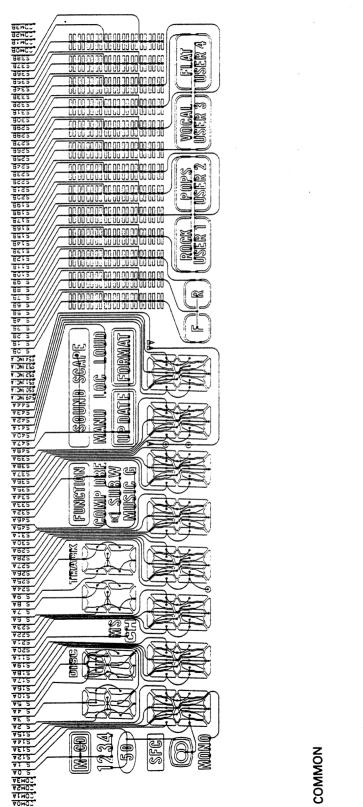


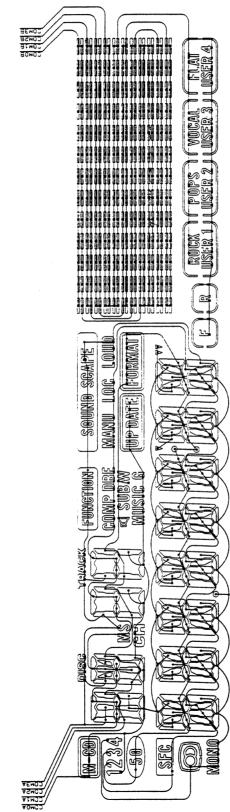


COMMON

SEGMENT

• CAW1333(DEH-P825/UC,P823/ES),CAW1363(DEX-P99/UC)

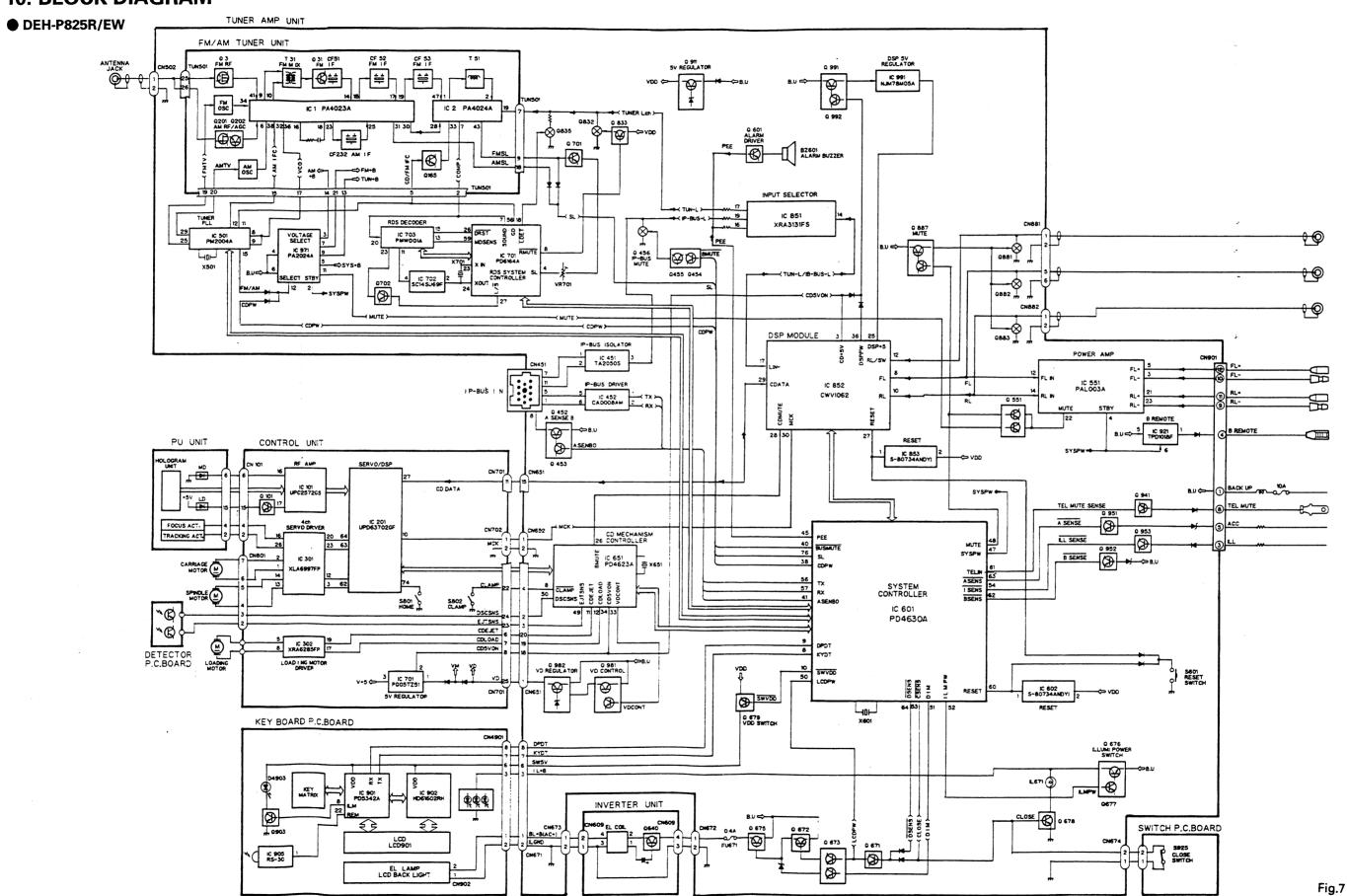




SEGMENT

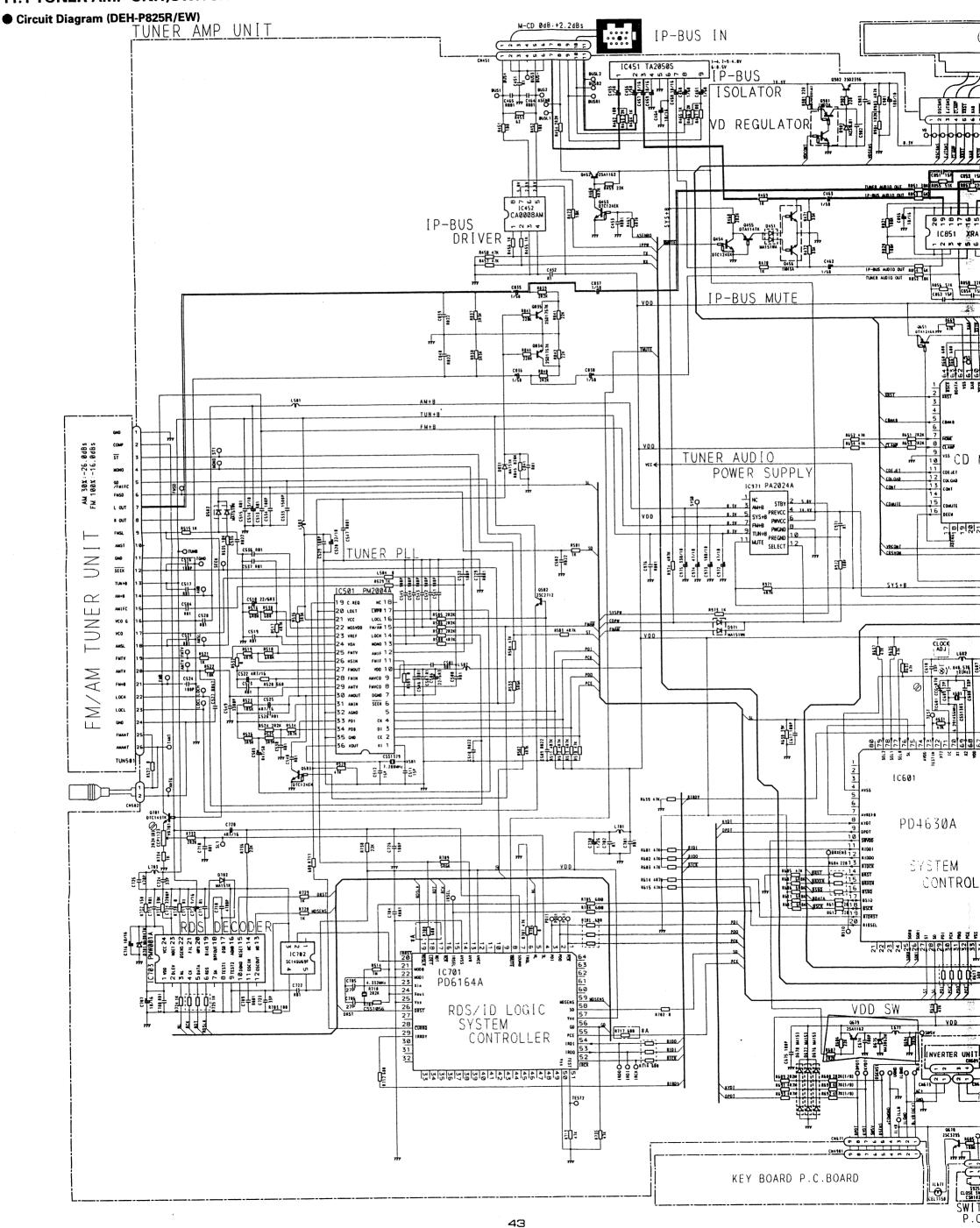
Fig.6

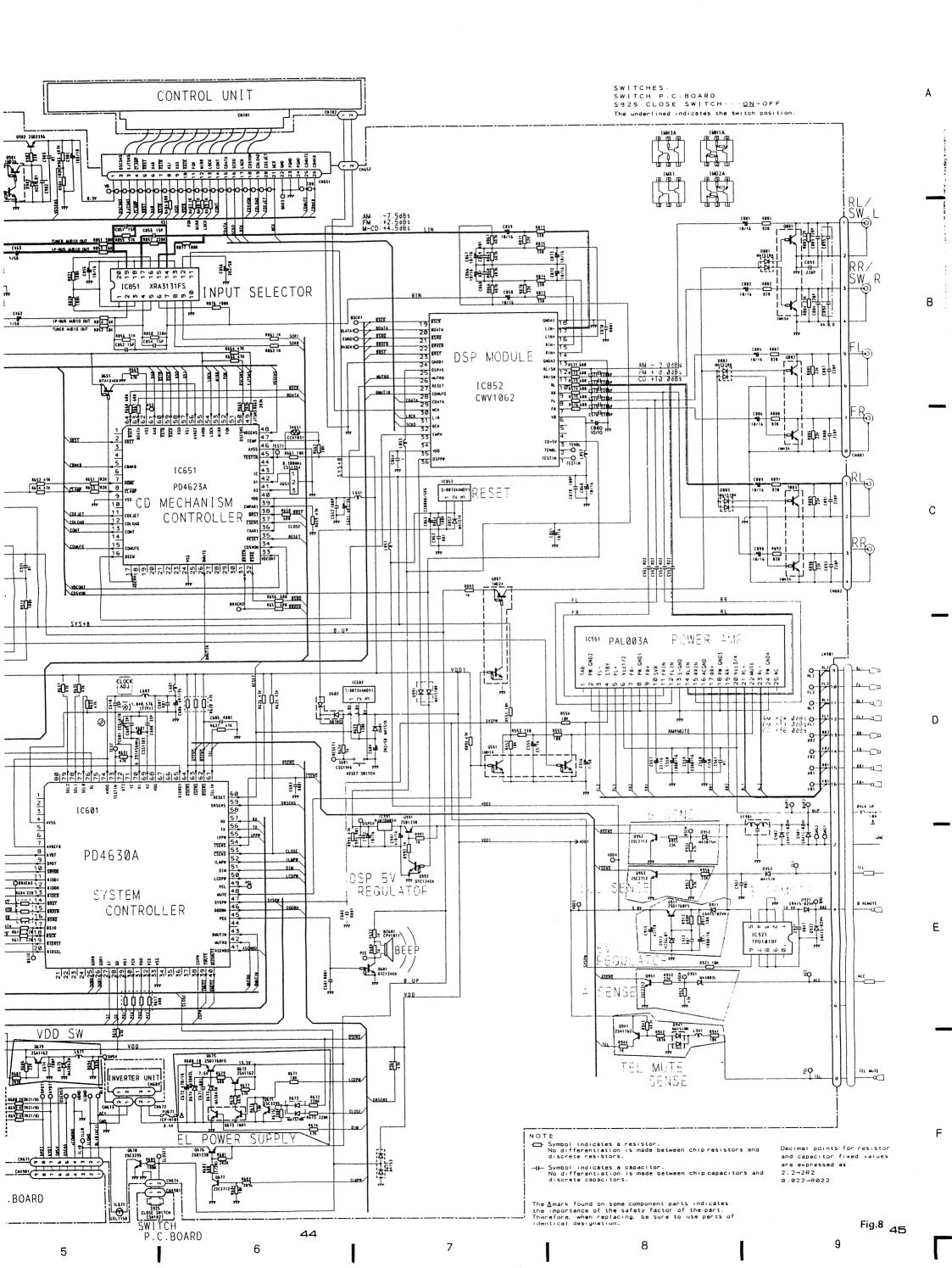
10. BLOCK DIAGRAM



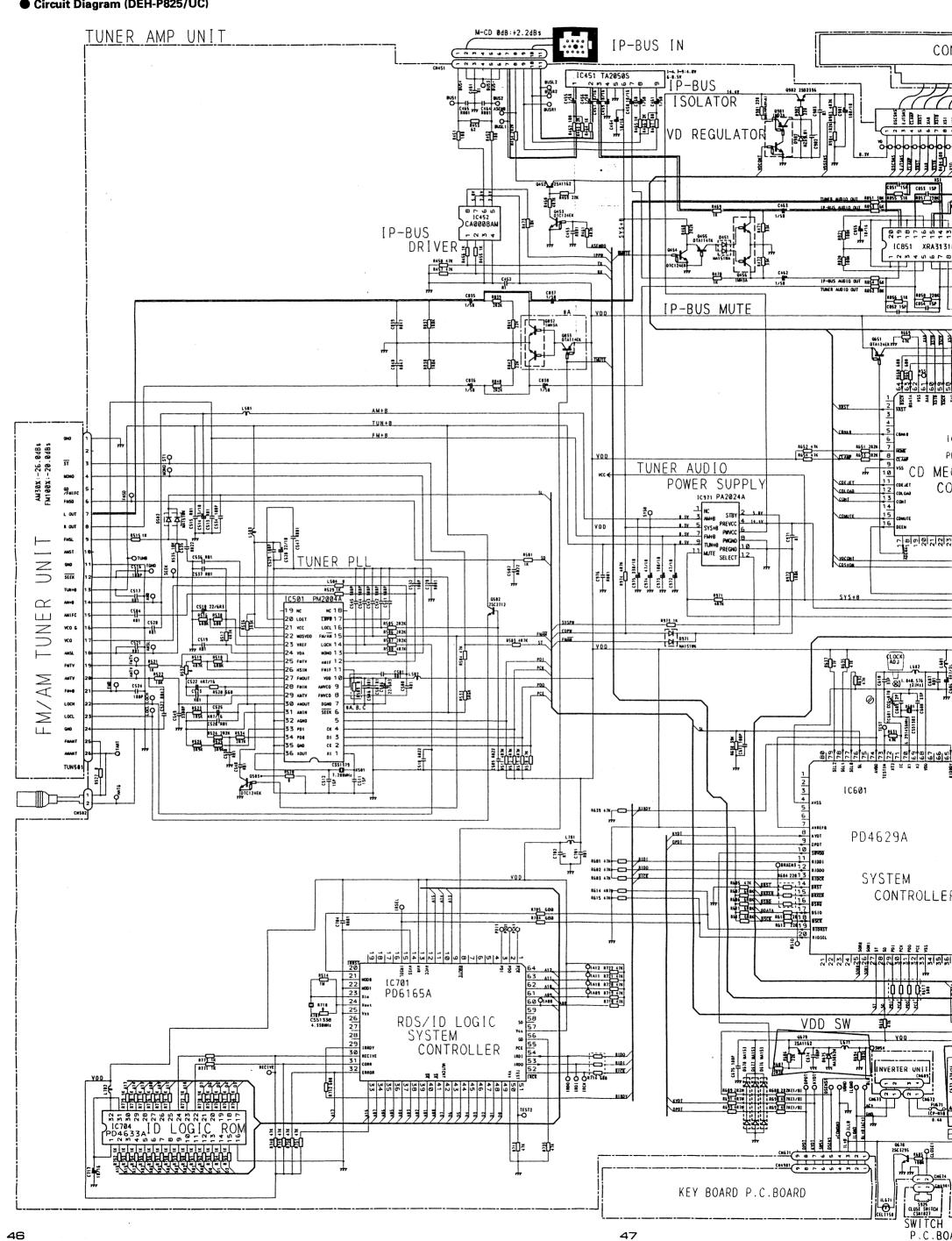
11. CIRCUIT DIAGRAM AND PATTERN

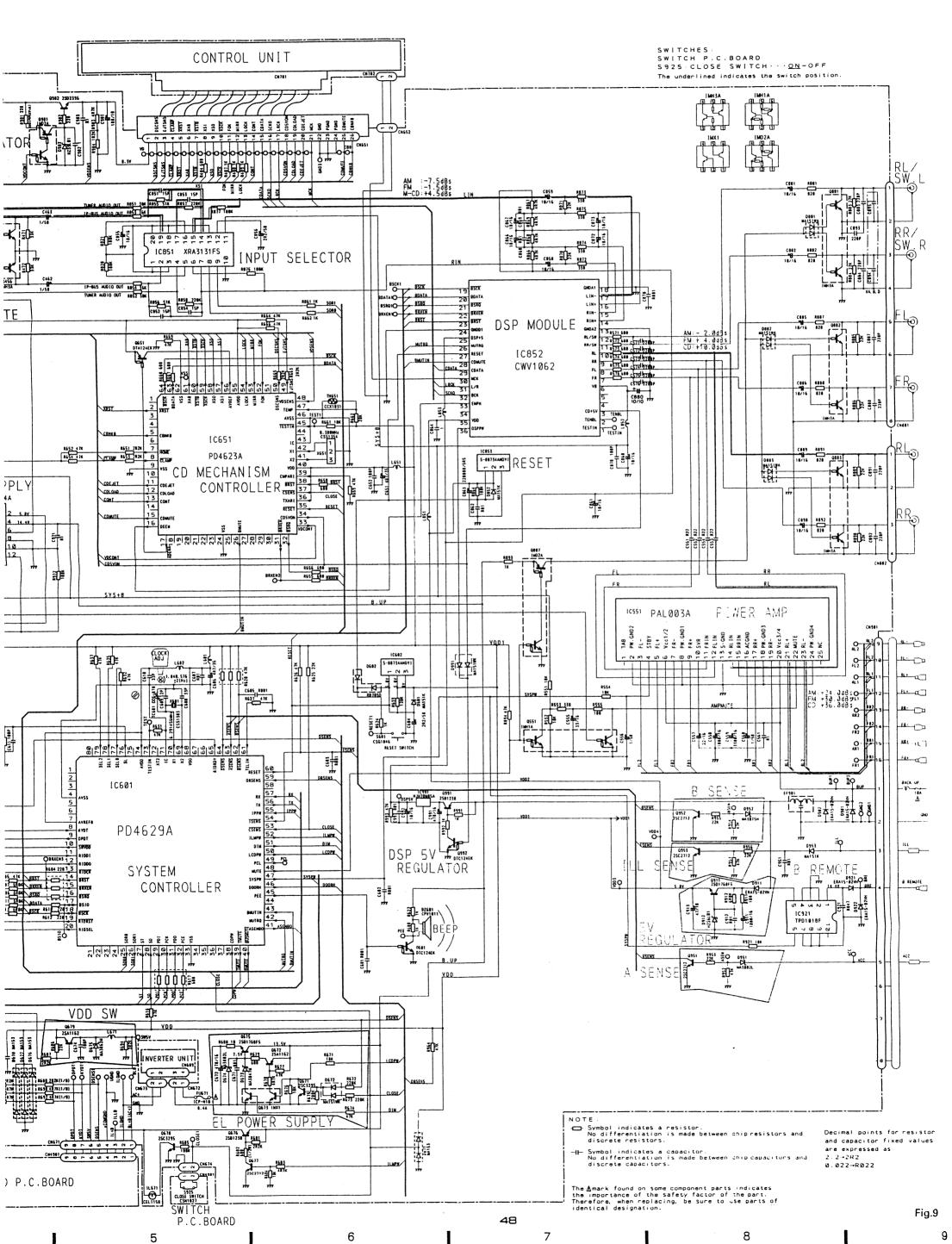
11.1 TUNER AMP UNIT, SWITCH P.C.BOARD

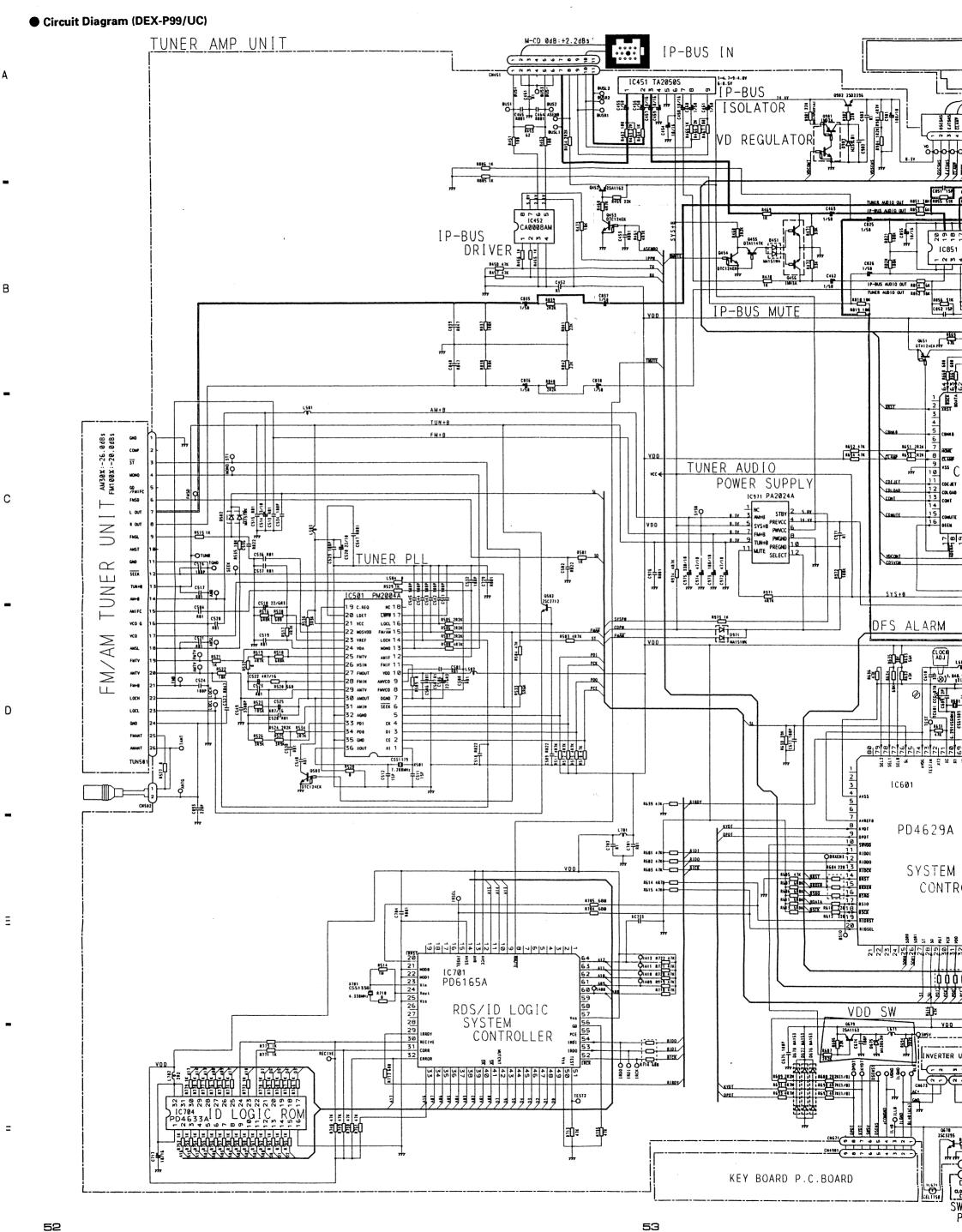


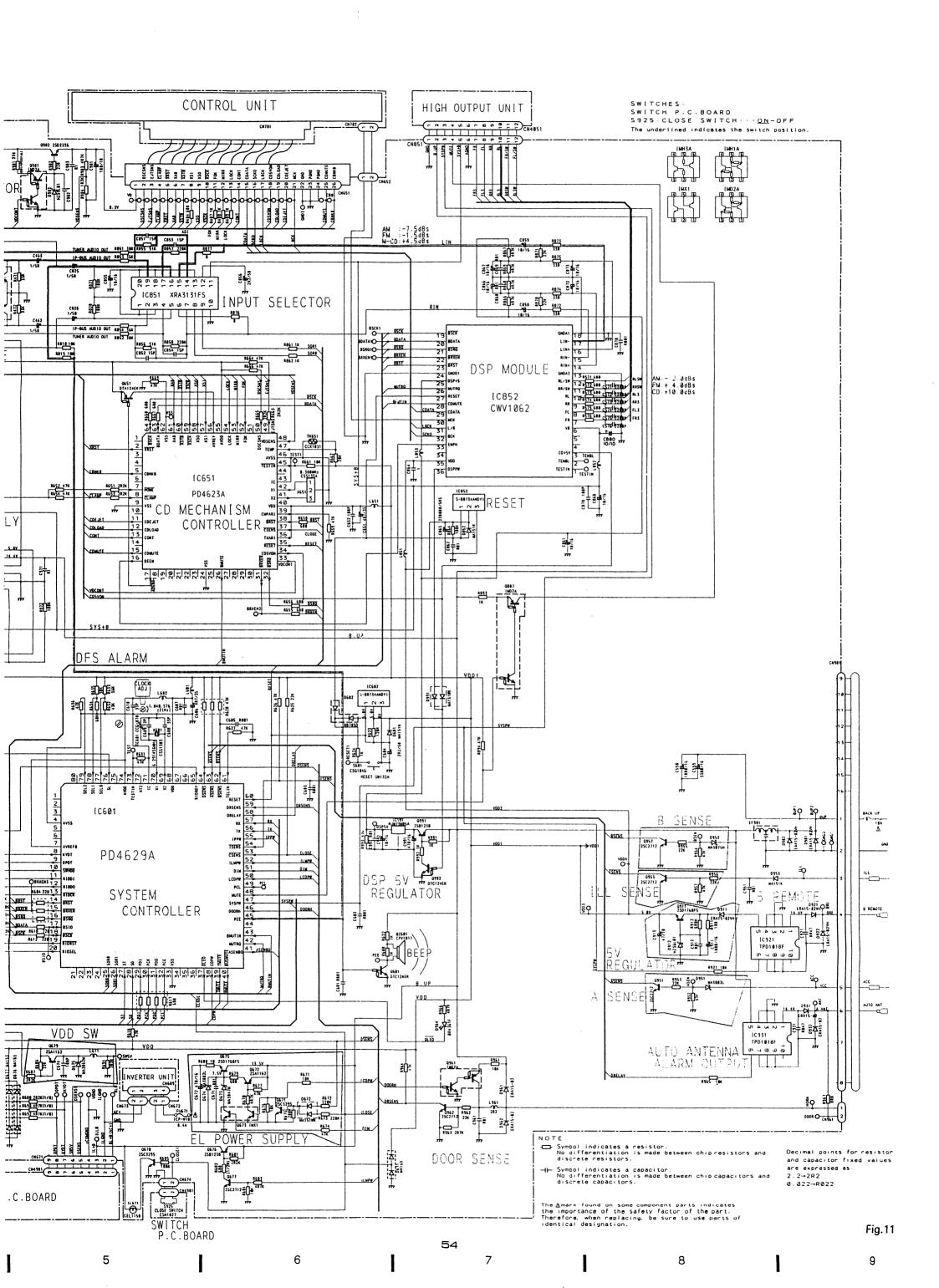


● Circuit Diagram (DEH-P825/UC)

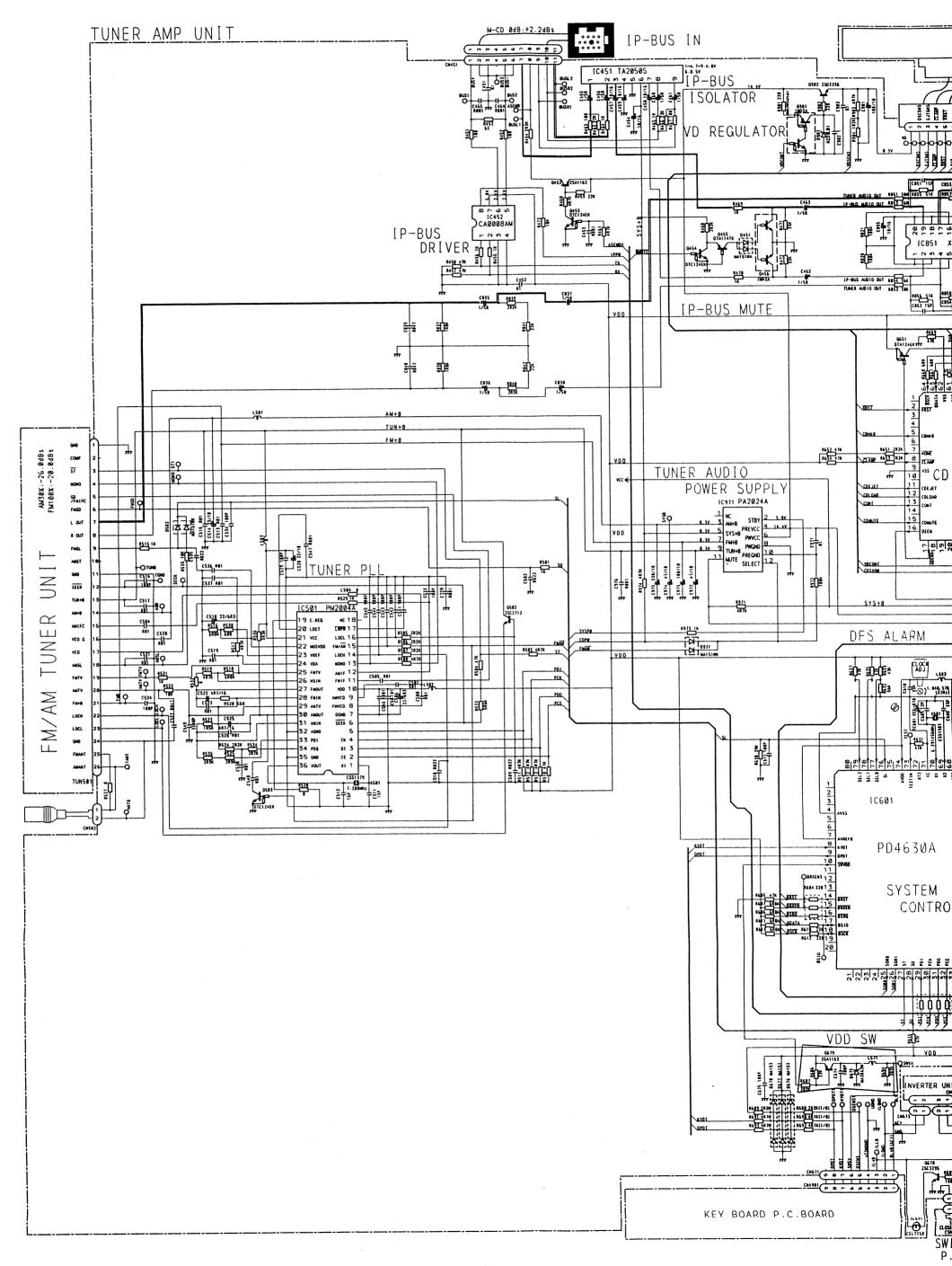


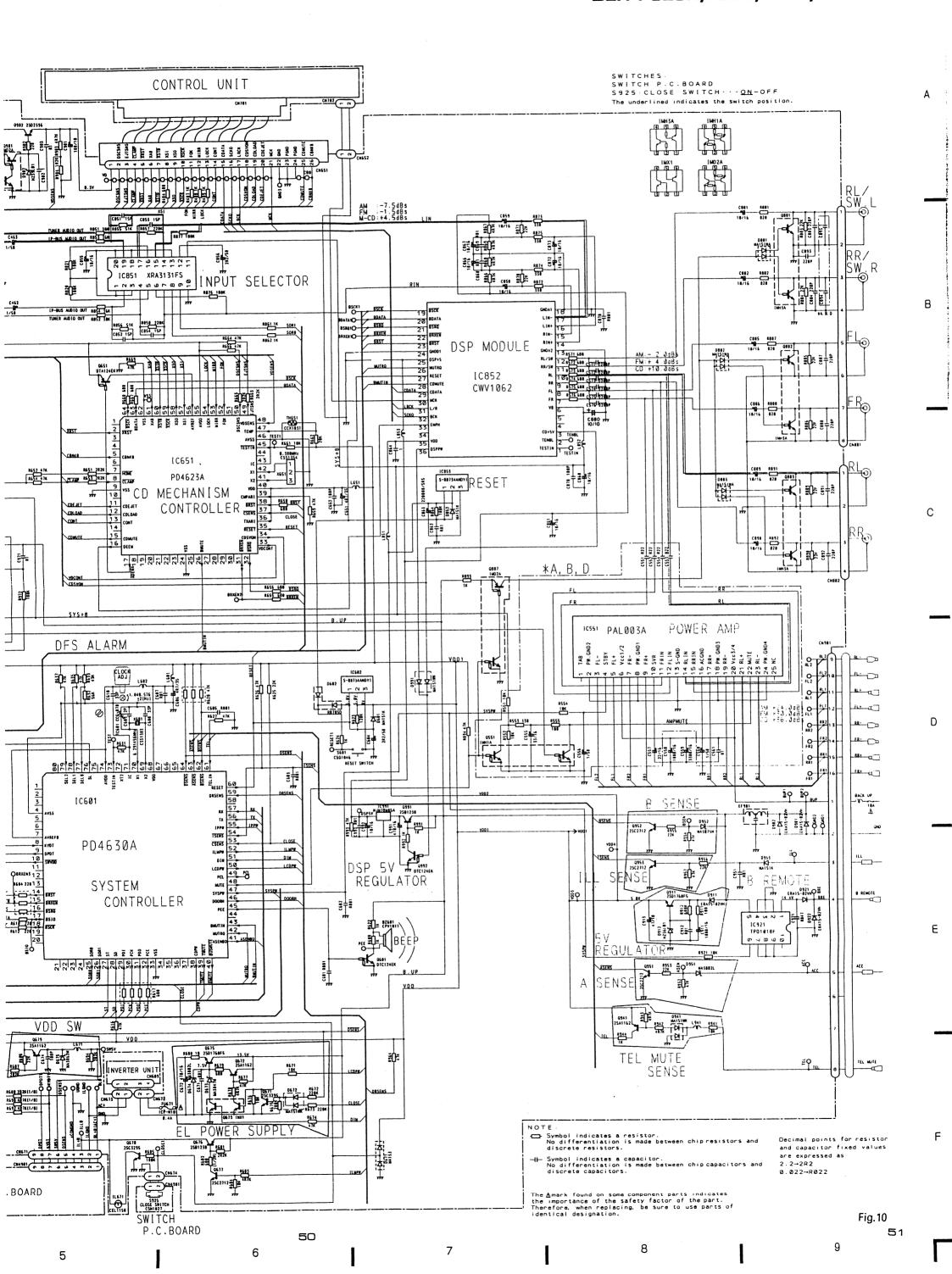


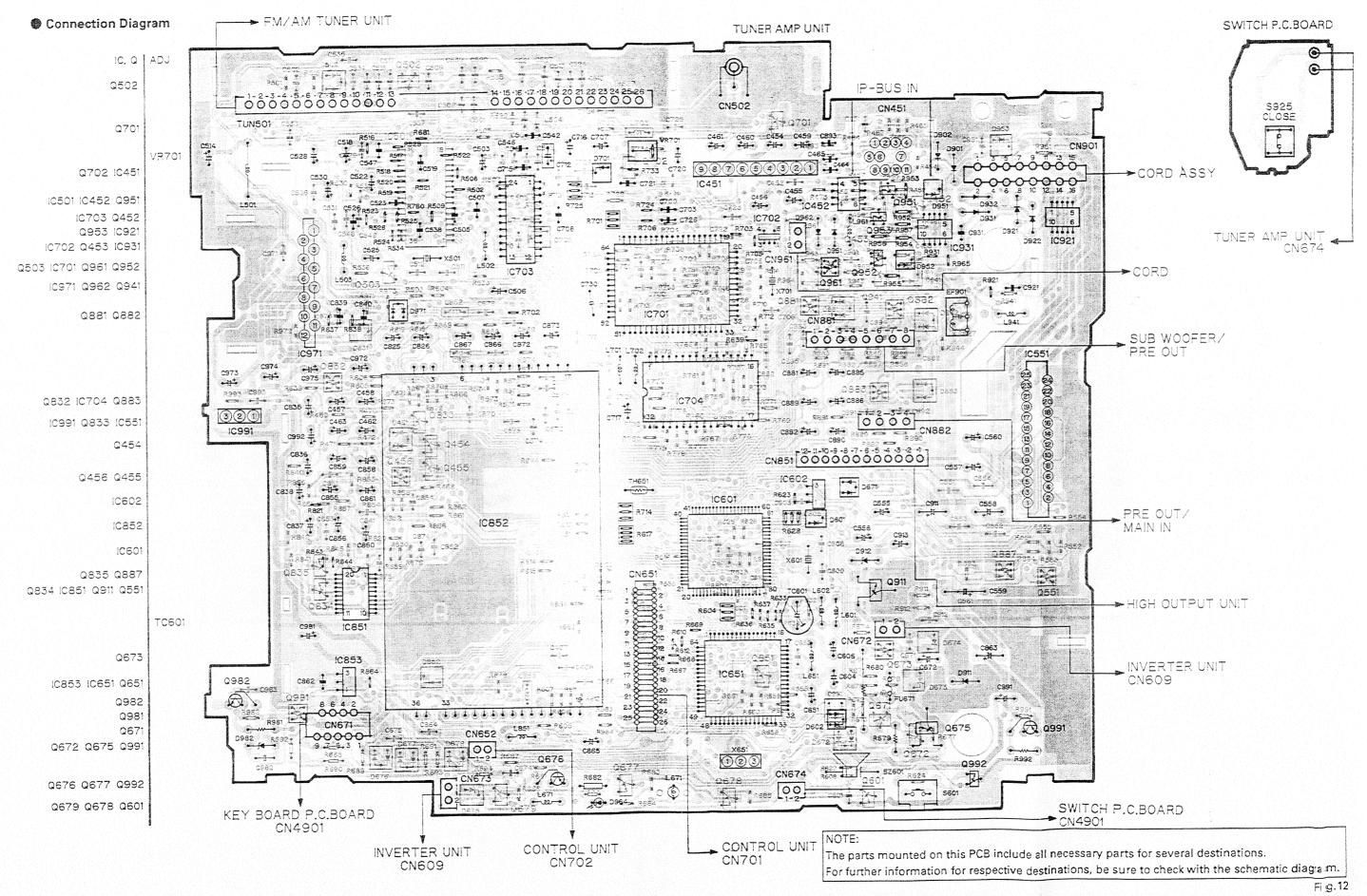




● Circuit Diagram (DEH-P823/ES)

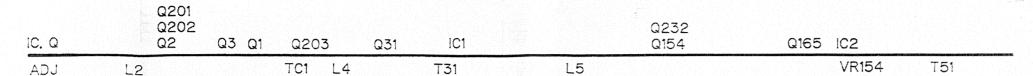


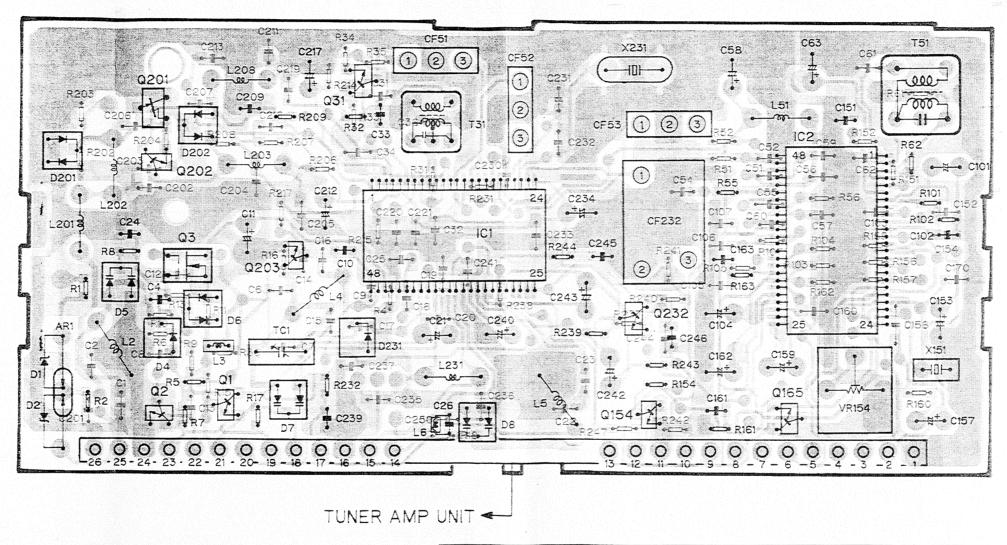




11.2 FM/AM TUNER UNIT

Connection Diagram



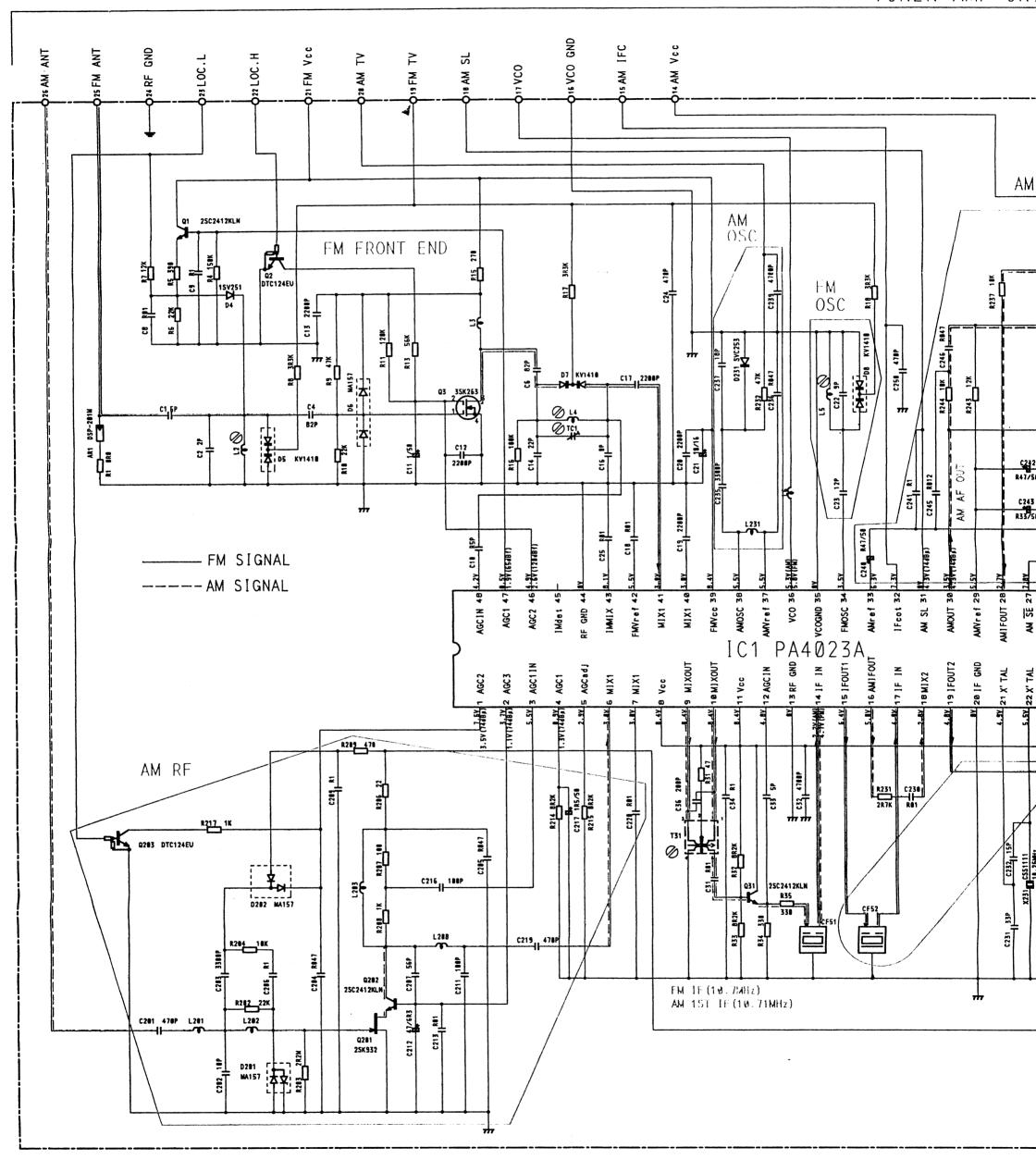


NOTE:

The parts mounted on this PCB include all necessary parts for several destinations.

For further information for respective destinations, be sure to check with the schematic diagram.

Fig.13



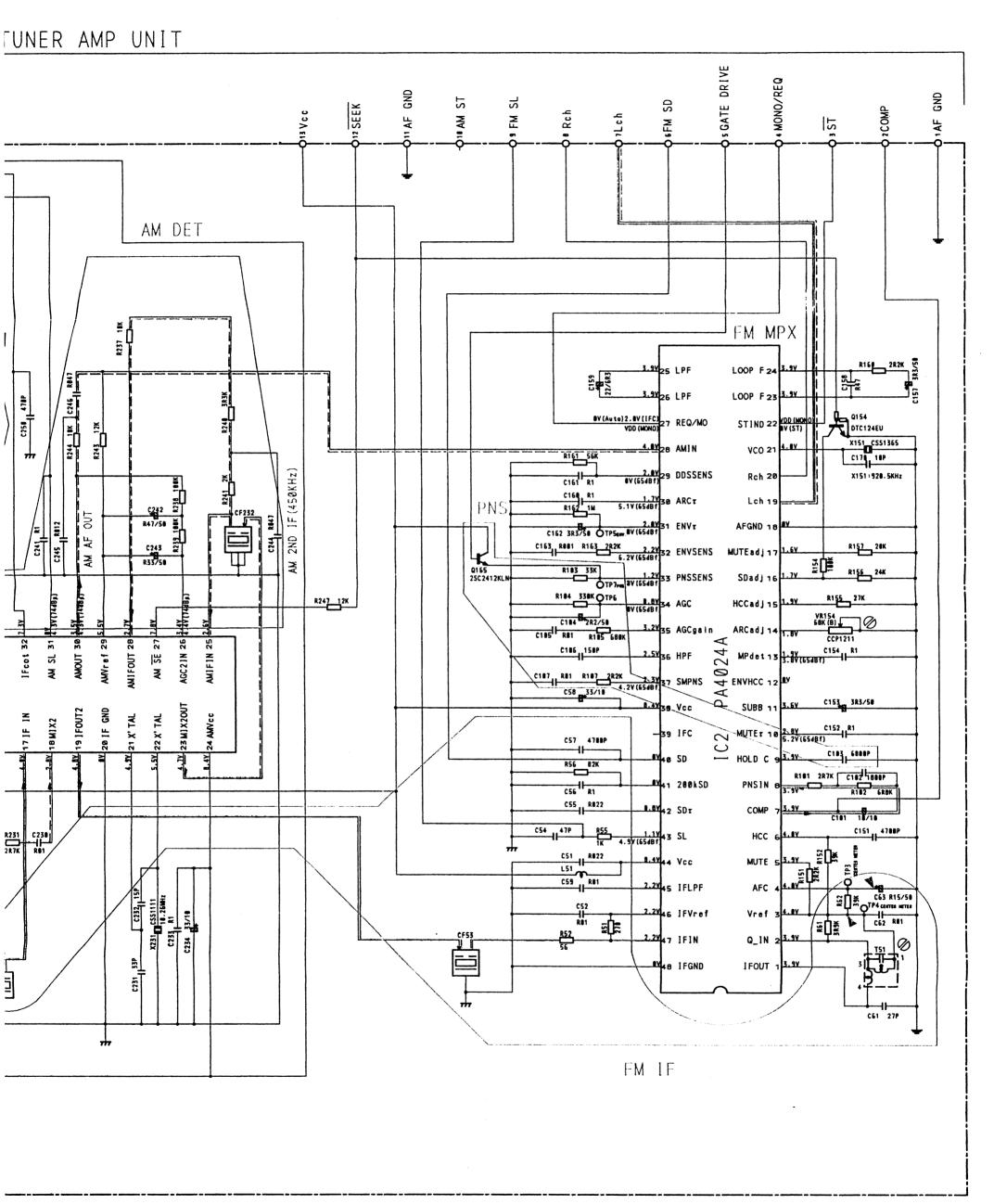


Fig.14

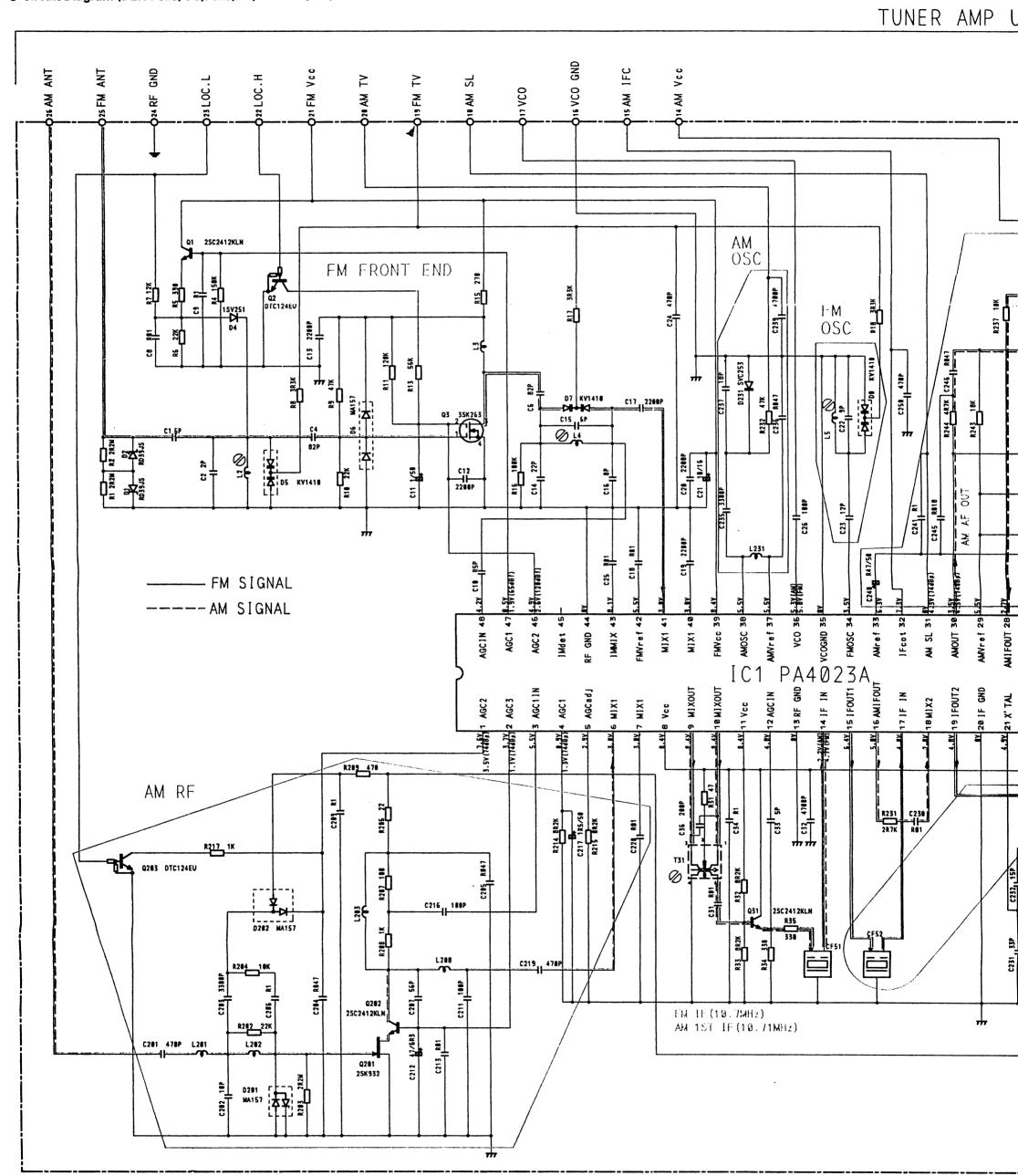
61

60

В

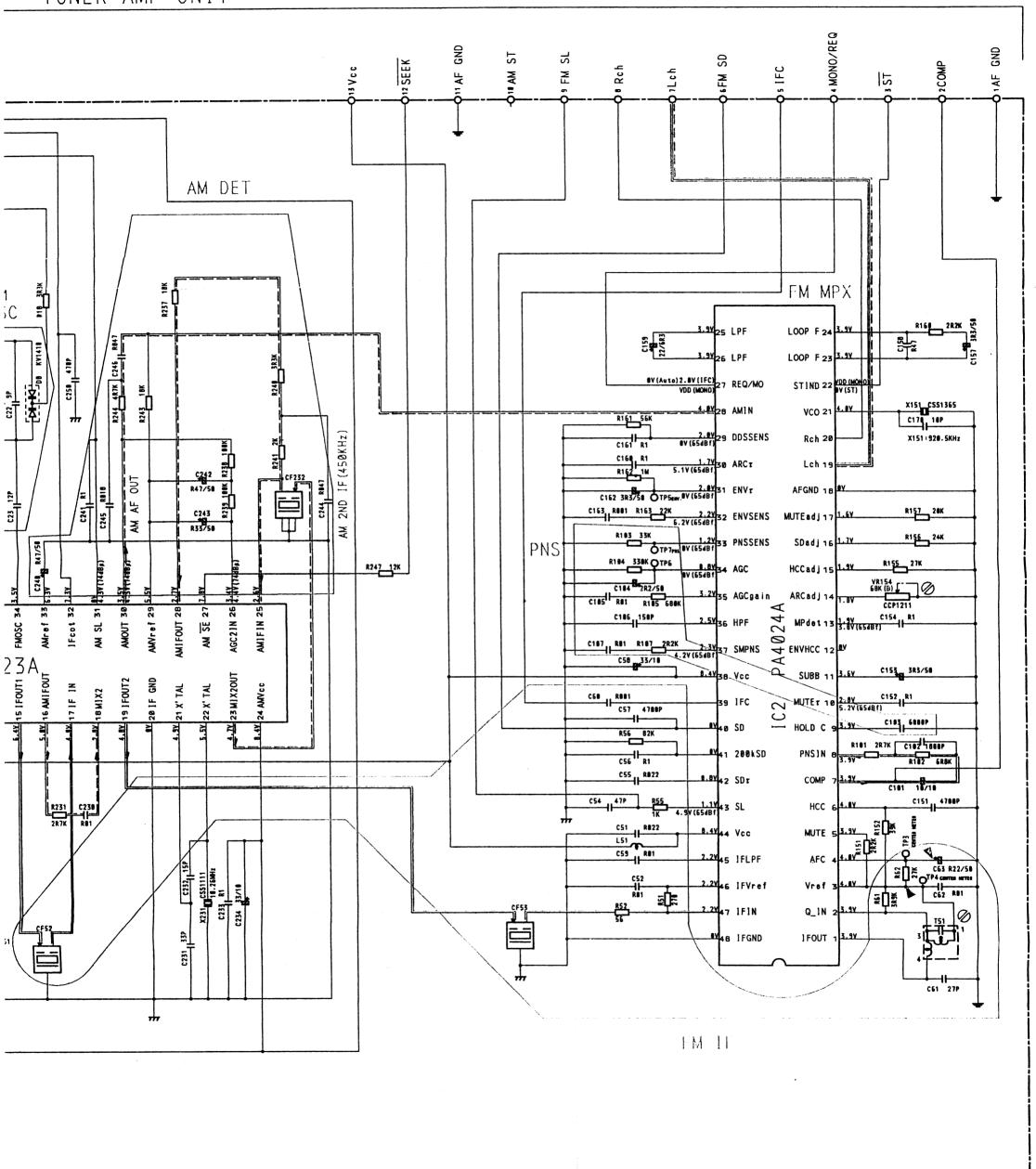
С

● Circuit Diagram (DEH-P825/UC,P823/ES,DEX-P99/UC)



82

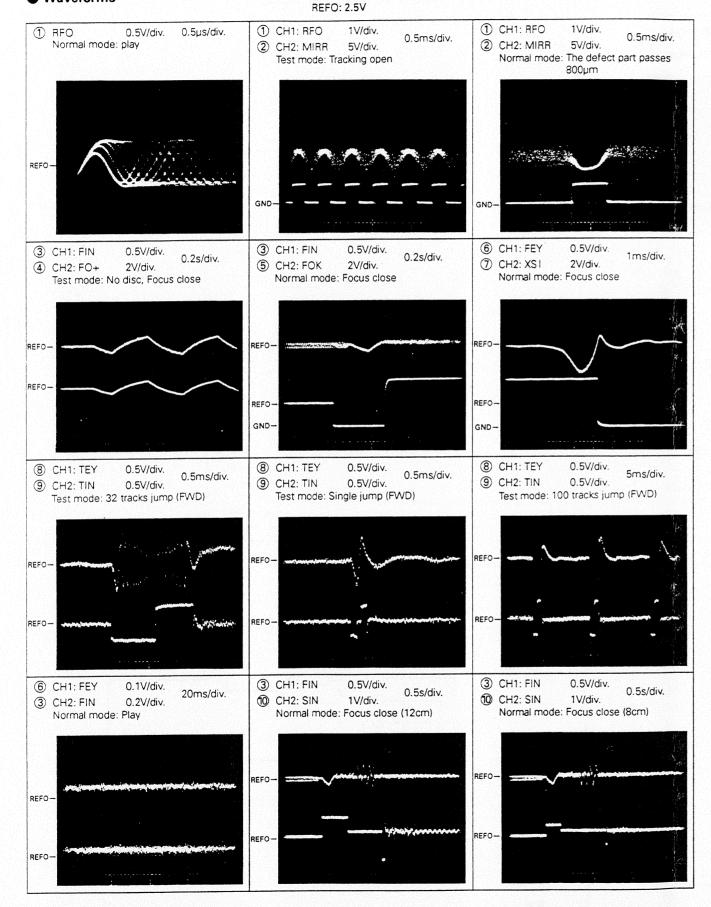
63

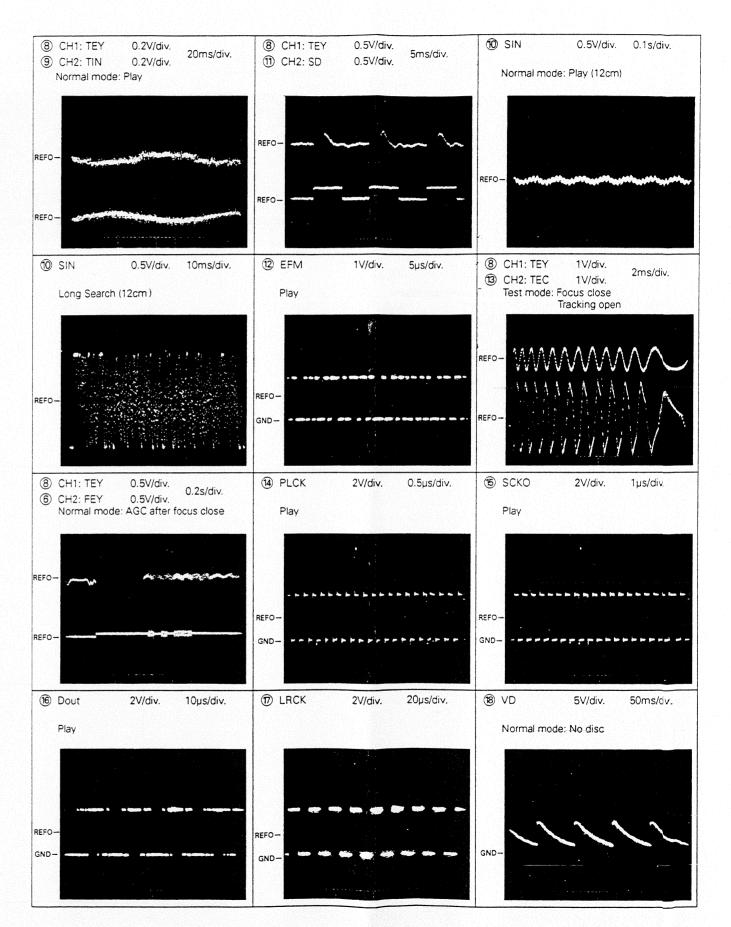


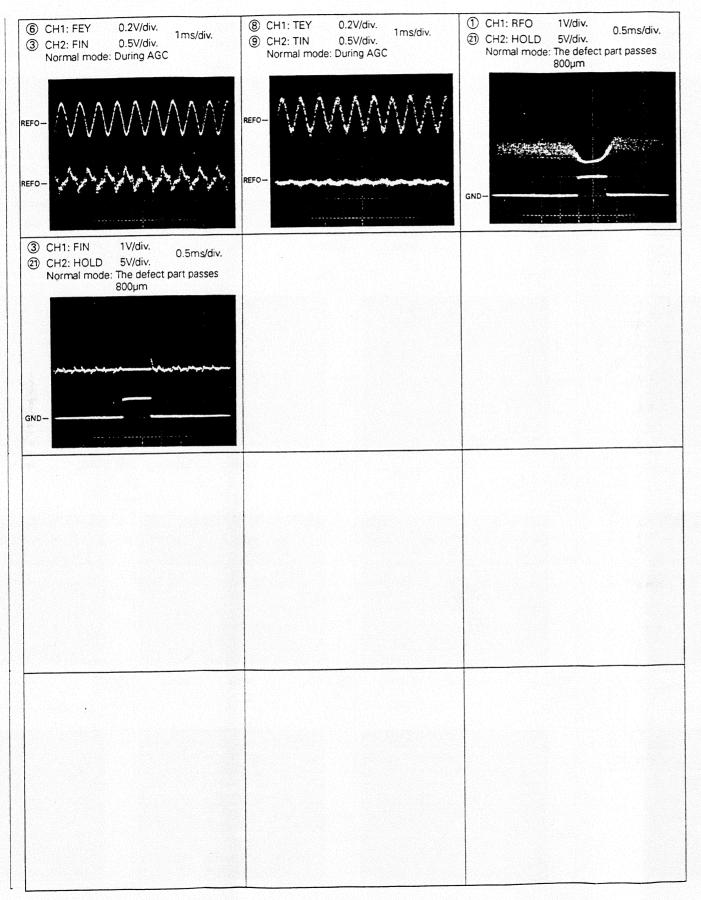
Note: 1. The encircled numbers denote measuring pointes in the circuit diagram.

Waveforms

2. Reference voltage



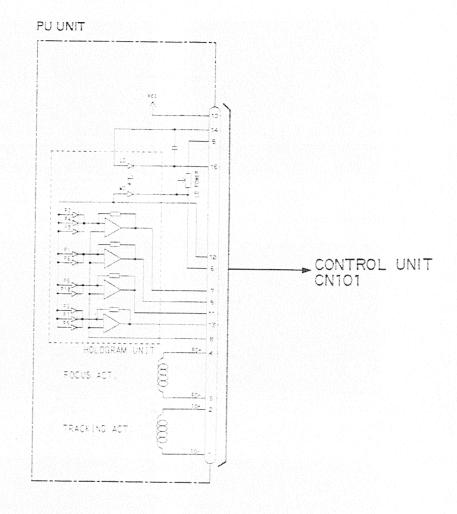


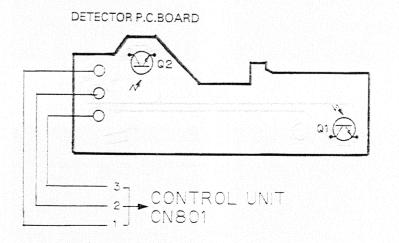


DEH-P825R,P825,P823,DEX-P99

11.3 CD MECHANISM MODULE

Connection Diagram



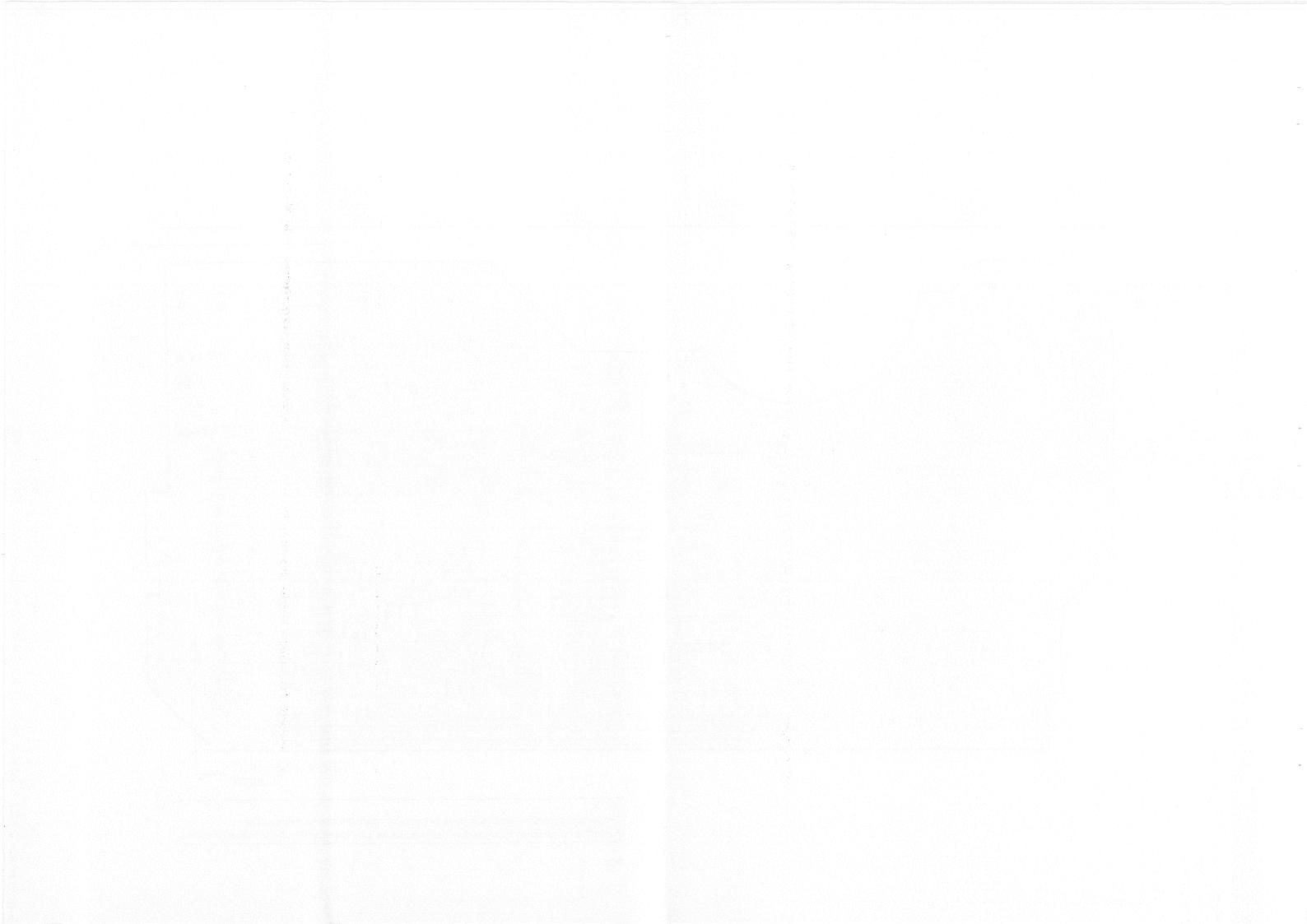


CONTROL UNIT IC101 Q602 Q101 IC201 IC501 IC302 Q102 IC, Q IC301 IC601 IC701 Q601 Q603 ➤ PU UNIT C305 UNER AMP UNIT LM O-•**-**|-• LM+ CN652 0 C306 C101 02 M3 LOADING MOTOR REFO O C107 **.** C903 0.2 FO E O 19~ CN701 TEYO 0.5 R™d 2 **2 612**3 C108 - # R302 65 80 C109 . . . 0.7 C102 R301 C302 C103 C601 IC201 22 C121 7. C501 IC301 0802 II R305 IC601 C120 R505 R202 R508 C607 C606 Q602 R606 R602 C203 R604 C604 R603 R601 C60 R605 R510 f C603 0503 R304 F4. • **• •** • • c905 C702 * IC701 C703 D801 R504 D702 __C904 C303 **‡** c901 • 14 • C701 TUNER AMP UNIT CN651 NOTE:

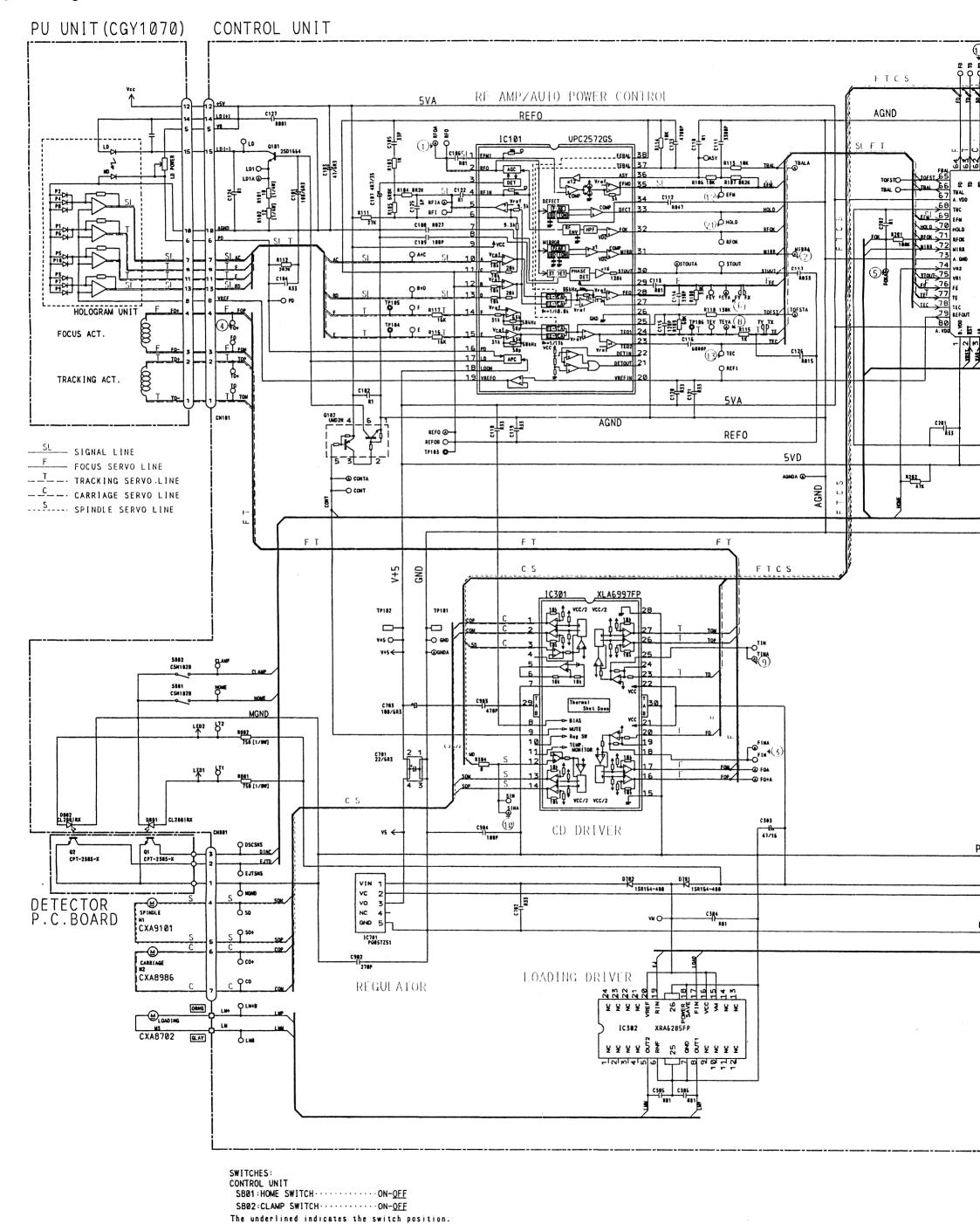
The parts mounted on this PCB include all necessary parts for several destinations.

For further information for respective destinations, be sure to check with the schematic diagram.

Fig.16



Circuit Diagram



71

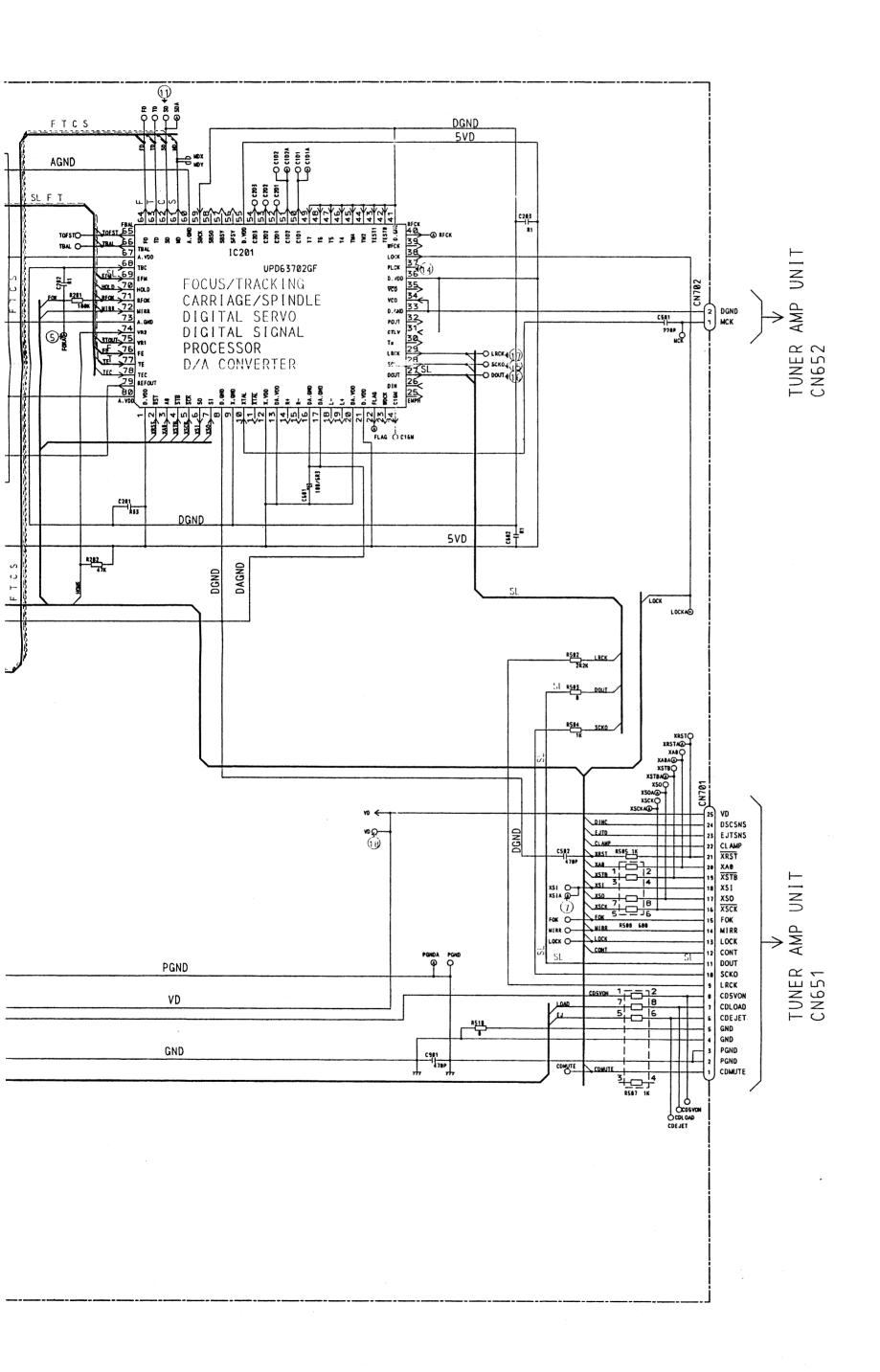


Fig. 17

72

73

D

В

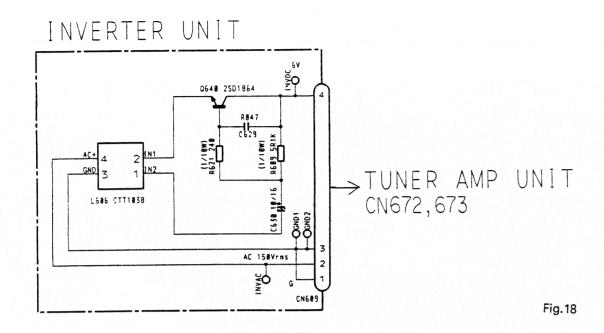
С

Ε

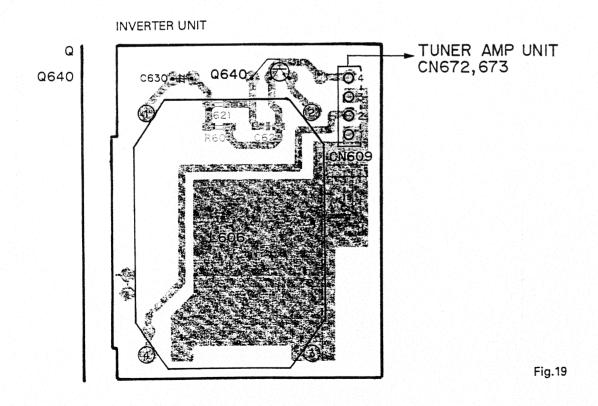
F

11.4 INVERTER UNIT

Circuit Diagram



Connection Diagram



11.5 KEY BOARD P.C.BOARD

Connection Diagram

C. Q IC905

IC901

Q903

IC902

IC902

IC905

IC901

Q903

IC902

IC902

IC905

IC905

IC905

IC906

IC906

IC907

IC905

IC907

IC905

IC907

IC905

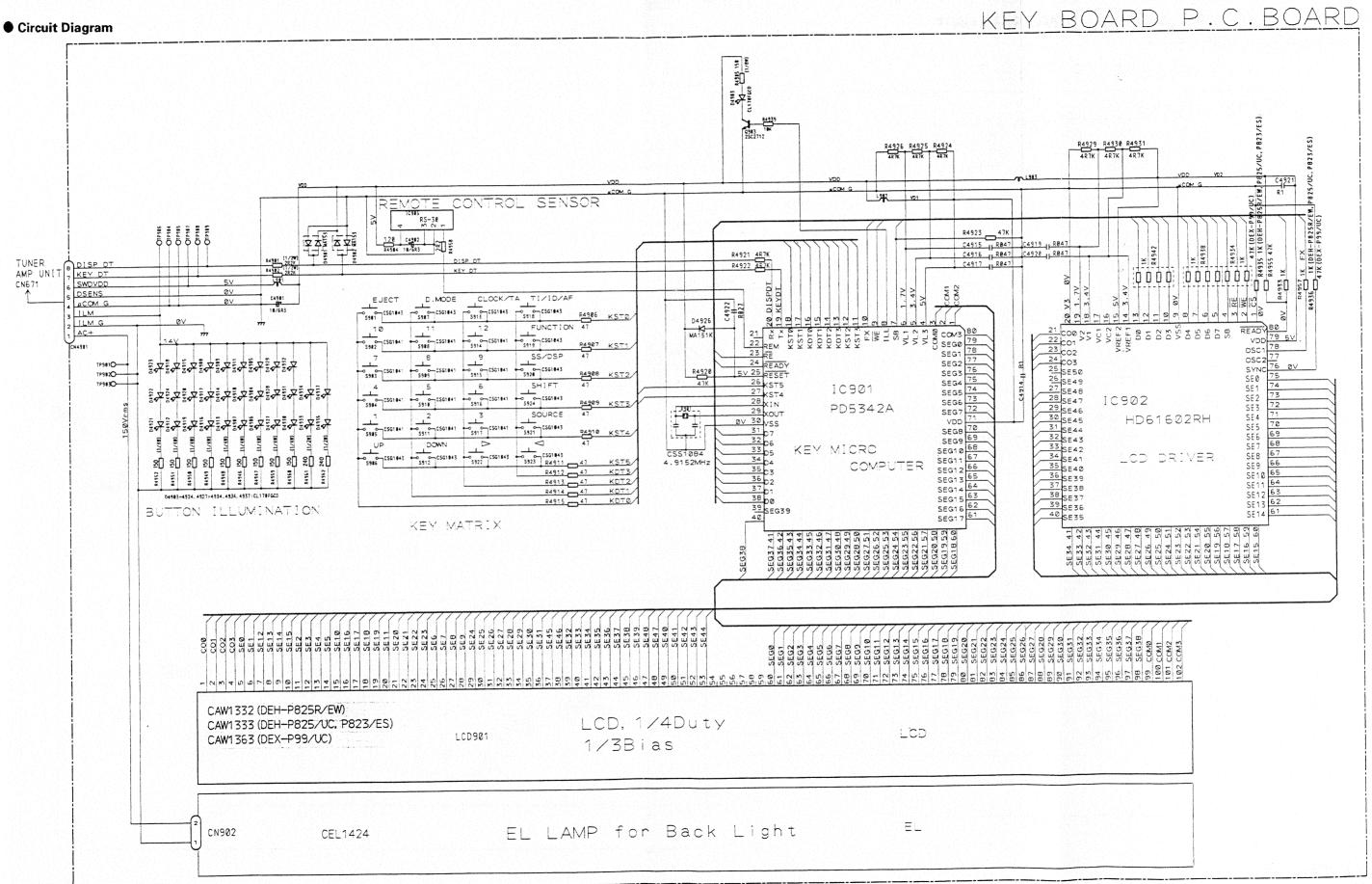
IC907

IC905

IC907

IC905

IC907



11.6 HIGH OUTPUT UNIT, DC-DC CONVERTER UNIT

● Circuit Diagram (DEX-P99/UC)

HIGH OUTPUT UNIT CN4051 C4151 2R2/50 R4151 47K R4153 SWL R4155 10K C4157 R082 \$\disp\{\times\}\dis CN4052 CN851 SUB.W OUT LINO REAR PREOUT AMP DC-DC CONVERTER UNIT VOUT TUNER -8.0V Q4881 2SA1797 D4881 SC882-86 CN4884 228H Q4882 25C2812 Q4883 2SA1179 R4005 33K C4884 188P R4883 R4881 1R2K C4882 R881 C4883 33/25 C4881 33/25 L4882 + F 228H FRONT PREOUT 04351 IHM3A 1C4351 5 NJM4558MD VIN FR R4811 188 CH4861 10K C4358 R4887 R4888 188K GR2K R4889 22K SYS+B 1.25V 777 MUTE VIN CONT IC4081 TL1451ANS-M (D) B.UP 04885 DTC124EU CN4882 CONT C4818 _____ SYSPW GND C4813 REG. GND C4812 R4817 228P 9R1K (D) VOUT R4816 758K GND CN4883

Connection Diagram(HIGH OUTPUT UNIT)

Q4151 IC. Q IC4151 IC4251 Q4251

IC4351 Q4351

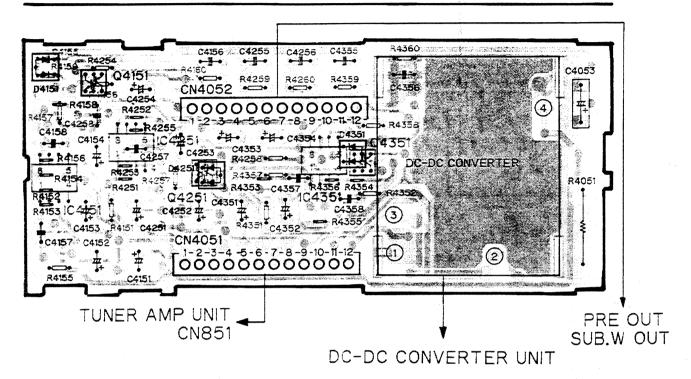


Fig.23

Connection Diagram(DC-DC CONVERTER UNIT)

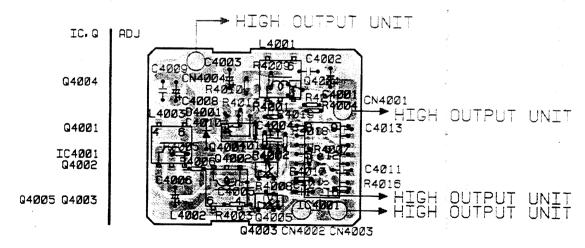
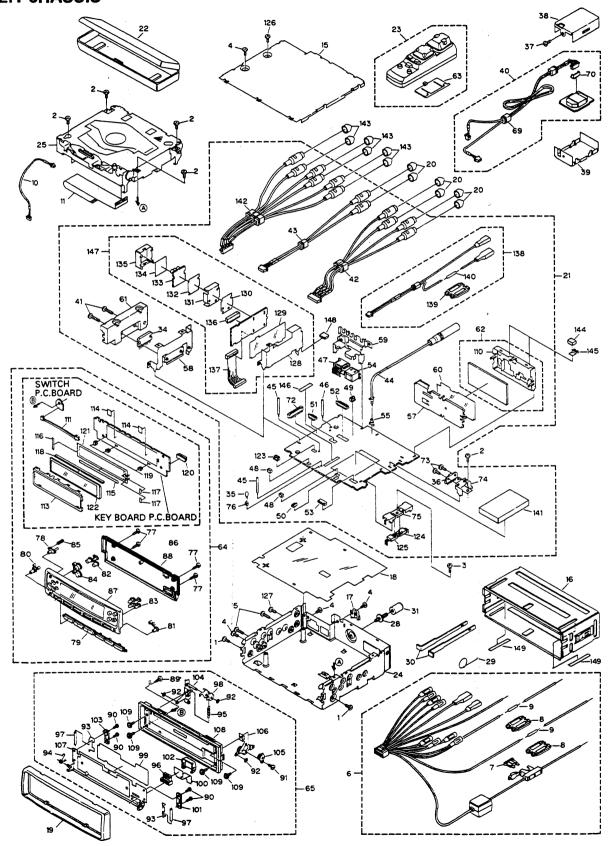


Fig.24

12. EXPLODED VIEW AND PARTS LIST

12.1 CHASSIS



NOTE:

Parts marked by "*"are generally unavailable because they are not in our Master Spare Parts List.
 Parts List (DEH-P825R/EW)

, . . .

| lark No | Description | Part No | Mark No | Description | Part No |
|---------|---------------------|--------------|---------|----------------------|-------------|
| | Screw | BMZ30P040FMC | 50 | Plug(CN673) | CKS1236 |
| 2 | Screw | BSZ26P050FMC | 51 | Plug(CN882) | CKS1238 |
| | Screw | BSZ26P080FMC | 52 | Plug(CN881) | CKS1242 |
| _ | Screw | BSZ30P060FMC | | Connector(CN671) | CKS2212 |
| | Screw | BMZ30P160FMC | 54 | Connector(CN451) | CKS2480 |
| 6 | Cord Assy | CDE4648 | 55 | Mini Pin Jack(CN502) | CKX1046 |
| | Fuse(10A) | CEK1136 | 56 | ••••• | |
| | Cap | CNS1472 | 57 | Holder | CNC6526 |
| | Resistor | RS1/2P102JL | | Bracket | CNC6656 |
| | Cord | CDE4806 | | Bracket | CNC6558 |
| 11 | Connector | CDE4864 | 60 | Insulator | CNM4684 |
| 12-14 | | | 61 | Heat Sink | CNR1408 |
| | Case | CNB2063 | 62 | FM/AM Tuner Unit | CWE1416 |
| | Holder | CNC4946 | | Cover | CNS3477 |
| | Holder | CNC4963 | | Detach Grille Assy | CXA8200 |
| 18 | Insulator | CNM4523 | 65 | Panel Assy | CXA8711 |
| 19 | Panel | CNS3113 | 66-68 | **** | |
| | Сар | CNV2680 | 69 | Cord | CDE4998 |
| | Tuner Amp Unit | CWX1923 | | Plug(CN609) | CKS1224 |
| | Case Assy | CXA7194 | | •••• | |
| 23 | Remote Control Assy | CXA7610 | 72 | Connector(CN651) | CKS2774 |
| | Chassis Unit | CXA8212 | 73 | Screw | BSZ30P060FN |
| | CD Mechanism Module | CXK5011 | | Holder | CNC6141 |
| 26-27 | | 574,455 1 1 | | Holder | CNC6431 |
| | Screw | CBA1284 | | Holder | CNV1906 |
| 29 | Spring | CBH-865 | 77 | Screw | BPZ20P080FZ |
| | Handle | CNC4947 | | Button(OPEN) | CAC4475 |
| | Bush | CNV1009 | | Button(1-12) | CAC4476 |
| 32-33 | | C144 1003 | | Button(SOURCE) | CAC4478 |
| | IC(IC551) | PAL003A | | Button(FUNCTION) | CAC4479 |
| 35 | Lamp(IL671) | CEL1150 | 82 | Button(⊲,⊳,SHIFT) | CAC4481 |
| | IC(IC971) | PA2024A | 83 | Button(SS,DM,AF,TA) | CAC4511 |
| | Screw | BSZ26P050FMC | | Button(+,-) | CAC4648 |
| - | Holder | CNC5735 | | Spring | CBH1844 |
| | Holder | CNC5736 | | Key Board Unit | CWM4471 |
| 40 | Inverter Unit | CWM4531 | 87 | Grille Unit | CXA8322 |
| | Screw · | BSZ26P140FMC | | Cover Unit | CXA8707 |
| | Cord | CDE4993 | | Screw | BPZ20P060FN |
| | Cord | CDE4995 | | Screw(M2x3) | CBA1082 |
| | Antenna Cable | CDH1146 | | Screw(M2x4) | CBA1176 |
| 45 | Clamper | CEF1004 | 92 | Washer | CBF1001 |
| | Clamper | CEF1006 | | Spring | CBH1528 |
| | Plug(CN901) | CKM1187 | | Spring | CBH1660 |
| | 08(014001) | J. 441 1 107 | 3- | | |
| | Plug(CN652,674) | CKS-783 | QE. | Spring | CBH1696 |

| Mark No | Description | Part No | Mark No. | Description | Part No |
|---------|-------------|--------------|----------|-------------------|--------------|
| | Roller | CLA2041 | * 117 | Spacer | CNM4753 |
| _ | Arm | CNC5640 | | Connector | CNV4430 |
| | Sheet | CNM4179 | 119 | Guide | CNV4431 |
| | P.C.Board | CNP3847 | | Connector(CN4901) | CKS2733 |
| | Holder | CNV2141 | 121 | EL(CN902) | CEL1424 |
| 102 | Cover | CNV3965 | 122 | LCD(LCD901) | CAW1332 |
| | Holder | CNV4105 | 123 | Plug(CN672) | CKS1222 |
| | Holder Unit | CXA7077 | 124 | IC(IC991) | NJM78M05A |
| | Damper Unit | CXA7159 | 125 | Transistor(Q982) | 2SD2396 |
| | Holder Unit | CXA7794 | 126 | Screw | BSZ30P060FMC |
| 107 | Holder Unit | CXA7959 | 127-140 | ***** | |
| | Panel Unit | CXA8708 | 141 | DSP Module | CWV1062 |
| | Screw | PMS20P030FZK | 142,143 | •••• | |
| | Holder | CNC6555 | 144 | Cushion | CNM4387 |
| | Cord | CDE4387 | 145 | Holder | CNC6469 |
| 112 | **** | | 146-148 | •••• | |
| | Holder | CNC6142 | * 149 | Spacer | CNM4888 |
| | Film | CNM4349 | | | |
| | Spacer | CNM4751 | | • | |
| | Spacer | CNM4752 | | | |
| | | | | | |

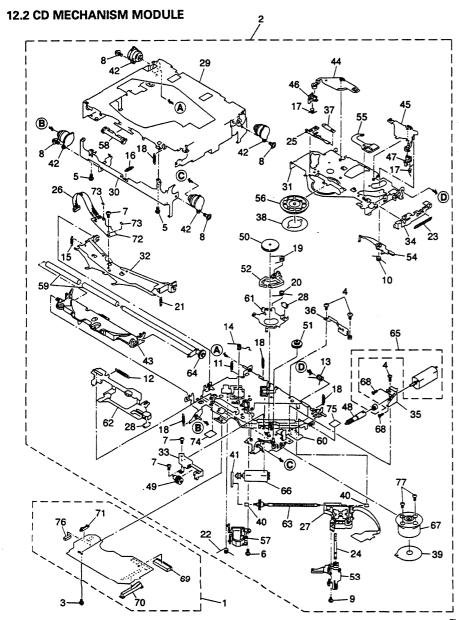
■ The DEH-P825/UC, DEH-P823/ES, and DEX-P99/UC Parts Lists enumerate the parts which differ from those enumerated in the DEH-P825/UC Parts List only. The parts other than those enumerated in the former are identical with those in the latter, to which you are requested to refer, accordingly. The DEH-P825R/EW Parts List is given on page 82.

| | | DEH-P825R/EW | DEH-P825/UC | DEH-P823/ES | DEX-P99/UC |
|-------------|-----------------|--------------|--------------|--------------|------------|
| Mark No. De | escription | Part No. | Part No. | Part No. | Part No. |
| 5 Sc | | BMZ30P160FMC | BMZ30P160FMC | BMZ30P160FMC | ••••• |
| | ord Assy | CDE4648 | CDE4976 | CDE4648 | ••••• |
| 6 Cc | | •••• | ***** | **** | CDE4970 |
| | ıse(10A) | CEK1136 | CEK1136 | CEK1136 | •••• |
| | use(3A) | **** | •••• | •••• | CEK1134 |
| 15 Ca | ase | CNB2063 | CNB2063 | CNB2063 | CNB2055 |
| 20 Ca | | CNV2680 | CNV2680 | CNV2680 | ••••• |
| | iner Amp Unit | CWX1923 | CWX1924 | CWX1926 | CWX1925 |
| | hassis Unit | CXA8212 | CXA8361 | CXA8361 | CXA8532 |
| | C(IC551) | PAL003A | PAL003A | PAL003A | ••••• |
| 41 Sc | crew | BSZ26P140FMC | BSZ26P140FMC | BSZ26P140FMC | |
| 42 C | | CDE4993 | CDE4993 | CDE4993 | ***** |
| 43 C | | CDE4995 | CDE4995 | CDE4995 | **** |
| | lug(CN961) | ***** | **** | •••• | CKS1222 |
| | lug(CN882) | CKS1238 | CKS1238 | CKS1238 | •••• |
| 52 PI | lug(CN881) | CKS1242 | CKS1242 | CKS1242 | |
| | racket | CNC6656 | CNC6656 | CNC6656 | **** |
| | racket | CNC6558 | CNC6558 | CNC6559 | CNC6557 |
| | eat Sink | CNR1408 | CNR1408 | CNR1408 | •••• |
| | M/AM Tuner Unit | CWE1416 | CWE1417 | CWE1417 | CWE1417 |

| | | | DEH-P825R/EW | DEH-P825/UC | DEH-P823/ES | DEX-P99/UC |
|--------|---------------|-------------------------|--------------|--------------|--------------|--------------|
| Mark I | No. | Description | Part No. | Part No. | Part No. | Part No. |
| | 64 | Detach Grille Assy | CXA8200 | CXA8201 | CXA8203 | CXA8202 |
| | 65 Panel Assy | | CXA8711 | CXA8711 | CXA8711 | CXA8327 |
| | 79 | Button(1-12) | CAC4476 | CAC4544 | CAC4545 | CAC4544 |
| | 83 | Button(SS,DM,AF,TA) | CAC4511 | •••• | | •••• |
| | 83 | Button(SS,DM,ID,CLOCK) | •••• | CAC4480 | •••• | ••••• |
| | 83 | Button(SS,DM,BSM,CLOCK) | •••• | | CAC4526 | •••• |
| | 83 | Button(DSP,DM,ID,CLOCK) | •••• | •••• | •••• | CAC4525 |
| | 86 | Key Board Unit | CWM4471 | CWM4472 | CWM4472 | CWM4473 |
| | 87 | Grille Unit | CXA8322 | CXA8323 | CXA8325 | CXA8324 |
| | 108 | Panel Unit | CXA8708 | CXA8708 | CXA8708 | CXA8347 |
| | 122 | LCD(LCD901) | CAW1332 | CAW1333 | CAW1333 | CAW1363 |
| | 126 | Screw | BSZ30P060FMC | BSZ30P060FMC | BSZ30P060FMC | •••• |
| | 127 | Screw | ***** | •••• | **** | BSZ30P060FMC |
| • | 128 | Holder | •••• | | •••• | CNC6143 |
| • | 129 | Insulator | •••• | | •••• | CNM4573 |
| | 130 | Insulator | **** | •••• | | CNM4760 |
| | 131 | Shield | ••••• | | | CNC6274 |
| | 132 | Insulator | ***** | **** | | CNM4814 |
| • | 133 | DC-DC Converter Unit | •••• | | | CWM4538 |
| • | 134 | Insulator | •••• | | | CNM4610 |
| | 135 | Shield | **** | | | CNC6224 |
| • | 136 | Plug(CN4052) | **** | •••• | •••• | CKS1059 |
| • | 137 | Cord(CN4051) | ***** | •••• | •••• | CDE4807 |
| 1 | 138 | Cord | •••• | | •••• | CDE4786 |
| 1 | 139 | Сар | **** | | •••• | CNS1472 |
| 1 | 140 | Resistor | ••••• | •••• | •••• | RS1/2P102JL |
| 1 | 142 | Cord | •••• | ***** | | CDE4801 |
| 1 | 143 | Cap | ••••• | ••••• | | CNV2680 |
| 1 | 146 | Insulator | ***** | •••• | | CNM4815 |
| 1 | 147 | High Output Unit | ***** | •••• | | CWX1922 |
| 1 | 148 | Spacer | ***** | | | CNM4868 |

. . .

DEH-P825R,P825,P823,DEX-P99

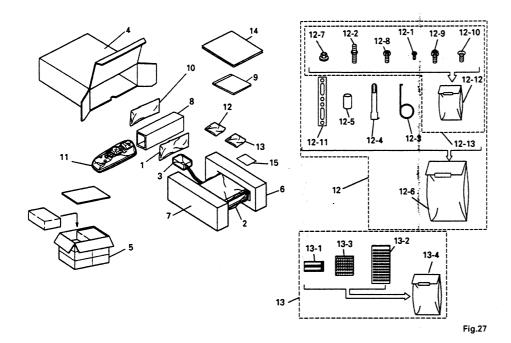


Parts List

, , , ,

| Mark | No. | Description | Part No. | Mark No. | Description | Part No. |
|------|-----|-------------------|--------------------|----------|-------------------------|-----------------|
| | | Control Unit | CWX1964 | 46 | Arm | CNV4124 |
| | | CD Mechanism Unit | CXA8880 | 47 | Arm | CNV4125 |
| | | Screw | PMS26P035FMC | 48 | Gear | CNV4128 |
| | _ | Screw | BMZ20P030FMC | 49 | Gear | CNV4129 |
| | | Screw | BSZ20P040FMC | 50 | Gear | CNV4130 |
| | | Screw(M2×3) | CBA1077 | 51 | Gear | CNV4131 |
| | | | CBA1250 | | Arm | CNV4136 |
| | | Screw(M2X2) | CBA1296 | | Holder | CNV4663 |
| | | Screw(M2×5) | CBA1250 CBA1362 | | Arm | CNV4138 |
| | _ | Screw(M2×3.85) | CBH1916 | | Arm | CNV4139 |
| | 10 | Spring | CBH1310 | | A | |
| | 11 | Spring | CBH1724 | 56 | Clamper | CNV4140 |
| | | Spring | CBH1727 | | Holder | CNV4664 |
| | | Spring | CBH1729 | 58 | Guide | CNV4484 |
| | | Spring | CBH1730 | 59 | Roller | CNV4509 |
| | | Spring | CBH1731 | 60 | Chassis Unit | CXA8561 |
| | | | | | | OV 40505 |
| | 16 | Spring | CBH1732 | | Arm Unit | CXA8565 |
| | 17 | Spring | CBH1736 | | Lever Unit | CXA8567 |
| | 18 | Spring | CBH1745 | | Screw Unit | CXA8699 |
| | 19 | Spring | CBH1832 | - | Gear Unit | CXA8701 |
| | 20 | Spring | CBH1833 | 65 | Load Motor Unit(M3) | CXA8702 |
| | 21 | Spring - | CBH1848 | 66 | CRG Motor Unit(M2) | CXA8986 |
| | | Spring | CBH1849 | 67 | Motor Unit(M1) | CXA9101 |
| | | Spring | CBH1863 | - 68 | Screw | JFZ20P025FMC |
| | | Spring | CBL1214 | 69 | Connector(CN101) | CKS1953 |
| | | Spring | CBL1269 | 70 | Connector(CN701) | CKS2774 |
| | 26 | Connector(CN1) | CDE4576 | 7. | Connector(CN801) | CKS2196 |
| | | PU Unit | CGY1070 | * 72 | Gathering P.C.Board | CNX2445 |
| | | Roller | CLA2627 | 7: | Photo-transistor(Q1, 2) | CPT-230S-X |
| | | Frame | CNC5796 | 7. | Sheet | CNM4873 |
| | |) Frame | CNC5797 | | Cushion | CNM3917 |
| | | | CNICEZOO | 7 | Connector(CN702) | CKS2191 |
| | _ | l Arm | CNC5799 | | S Connector(CN702) | JGZ17P025FZK |
| * | | 2 Arm | CNC5801 | /. | Screw | 3GZ 171 0231 ZK |
| | | Bracket | CNC5871 | | | |
| | | Lever | CNC6054 | | | |
| | 35 | 5 Bracket | CNC6056 | | | |
| * | 36 | Bracket | CNC6376 | | | |
| | 37 | 7 Spacer | CNM3315 | | | |
| | 38 | 3 Sheet | CNM4849 | | | |
| | 39 | P.C.Board | CNP4230 | | | |
| | |) Bearing | CNR1415 | | | |
| | 4 | 1 Belt | CNT1071 | | | |
| | | 2 Damper | CNV3974 | | | |
| | | 3 Arm | CNV4120 | | | |
| | | 4 Arm | CNV4122 | | | |
| | | 5 Arm | CNV4123 | | | |
| | - | · · · · · · · | | | | |

13. PACKING METHOD



Owner's ManualInstallation Manual

| TIIStallauvii | IVIGITUAL | |
|---------------|--------------|---|
| Part No. | Model | Language |
| CRD1928 | DEH-P825R/EW | English,Spanish |
| CRD1929 | DEH-P825R/EW | German,French |
| CRD1989 | DEH-P825R/EW | Italian,Dutch |
| CRD2034 | DEH-P825R/EW | English,Italian,French,German,Dutch,Spanish |
| CRD1931 | DEH-P825/UC | English,French |
| CRD1979 | | |
| CRD1932 | DEH-P823/ES | English, Arabic |
| CRD1980 | DEH-P823/ES | English,French,Spanish,Arabic |
| CRD1990 | DEH-P823/ES | French, Spanish |
| CRD1930 | DEX-P99/UC | English,French |
| CRD1978 | 1 | |

Parts List

| | | · - | · | | *:Non Spare Part |
|-------------|---------------------|--------------------|-------------------------|--------------|------------------|
| 1 | | DEH-P825R/EW | DEH-P825/UC | DEH-P823/ES | DEX-P99/UC |
| | Description | Part No. | Part No. | Part No. | Part No. |
| 1 | Cord Assy | CDE4648 | CDE4976 | CDE4648 | •••• |
| 1 | Cord | **** | ***** | **** | CDE4970 |
| 2 | Polyethylene Bag | CEG-162 | CEG1173 | CEG-162 | CEG1173 |
| 3 | Air Cushioned Bag | CEG1192 | CEG1192 | CEG1192 | CEG1192 |
| 4 | Carton | CHG2831 | CHG2834 | CHG2832 | CHG2833 |
| 1 | | | | | 1 |
| 5 | Contain Box | CHL2831 | CHL2834 | CHL2832 | CHL2833 |
| 6 | Protector(R) | CHP1766 | CHP1766 | CHP:1766 | CHP1766 |
| 7 | Protector(L) | CHP1767 | CHP1767 | CHP1767 | CHP1767 |
| 8 | Spacer | CHW1433 | CHW1433 | CHW1433 | CHW1433 |
| 9 | CD | CPJ1004 | ***** | CPJ1004 | •••• |
| 1 | | | 1 | 0.0.00 | |
| 10 | Case Assv | CXA7194 | CXA7194 | CXA7194 | CXA7194 |
| | Remote Control Assy | CXA7610 | CXA7610 | CXA7610 | CXA7610 |
| | Accessory Assy | CEA2065 | CEA2066 | CEA2067 | CEA2066 |
| | Screw(M2x6) | CBA1120 | CBA1120 | CBA1120 | CBA1120 |
| | Screw | CBA1284 | CBA1284 | CBA1284 | CBA1284 |
| 12-2 | Sciew | CDA 1204 | CBA 1204 | CDA 1204 | CDA1204 |
| 12-3 | Spring | CBH-865 | CBH-865 | CBH-865 | CBH-865 |
| | Handle(x2) | CNC4947 | CNC4947 | CNC4947 | 1 |
| | Bush | CNV1009 | | 1 | CNC4947 |
| | Polyethylene Bag | E36-615 | CNV1009 | CNV1009 | CNV1009 |
| | Nut(x2) | E30-0 ID | CEG-158 | CEG-158 | CEG-158 |
| 12-7 | NUI(X2) | 1 ***** | NF50FMC | **** | NF50FMC |
| 12.0 | Screw(x4) | | TRZ50P080FMC | TRZ50P080FMC | TRITTOROGENAC |
| | Screw(X4) | •••• | | TRZ50P080FMC | TRZ50P080FMC |
| | Screw(x4) | •••• | CBA-102 CRZ50P090FMC | CRZ50P090FMC | CBA-102 |
| | Strap | •••• | | CHZ50P090FMC | CRZ50P090FMC |
| 1 | | •••• | CNF-111 | 1 | CNF-111 |
| + 12-12 | Polyethylene Bag | •••• | CEG-127 | CEG-127 | CEG-127 |
| 12.12 | Screw Assy | | 0540000 | 05.40000 | |
| | Accessory Assy | CEA2081 | CEA2068 | CEA2069 | CEA2068 |
| | Battery | CEX1006 | CEA2081 | CEA2081 | CEA2081 |
| | Fastener(Soft) | CNM3729 | CEX1006 | CEX1006 | CEX1006 |
| | | | CNM3729 | CNM3729 | CNM3729 |
| 13-3 | Fastener(Rough)(x2) | CNM4256 | CNM4256 | CNM4256 | CNM4256 |
| # 13.4 | Polyethylene Bag | E36-615 | E36-615 | E36-615 | F00 645 |
| | Polyethylene Bag | CEG1116 | CEG1116 | | E36-615 |
| | Owner's Manual | CRD1928 | | CEG1116 | CEG1116 |
| | Owner's Manual | 1 | CRD1931 | CRD1932 | CRD1930 |
| 1 - | Installation Manual | CRD1929 CRD2034 | 1 | | |
| 14-4 | installation Manual | CRD2034 | CRD1979 | CRD1980 | CRD1978 |
| 14 5 | Owner's Manual | CBD1000 | •••• | CDD4000 | |
| | Passport | CRD1989 | •••• | CRD1990 | •••• |
| | | CRY1013 | 1 | •••• | •••• |
| | Warranty Card | CRY1087 | | •••• | CRY1070 |
| * 14-8 | | ***** | ARY1048 | ••••• | ••••• |
| 14-9 | Chart | ***** | CRB1375 | ***** | CRB1374 |
| + 14 - 2 | Caution Card | **** | | | |
| | | 1 | 000000 | **** | CRP1144 |
| <u>+ 15</u> | Caution Card | CRP1145 | CRP1145 | CRP1145 | CRP1145 |



Service Manual

ORDER NO. CRT1821

MULTI-CD CONTROL HIGH POWER CD PLAYER WITH RDS TUNER

XIB/EW



● This additional service manual is designed to be used together with Model DEH-P825R/EW Service Manual CRT1805. Refer to it for finding parts numbers and adjustment, etc. which are not shown in this manual.

PACKING METHOD

Parts List(Page 88)

#:Non Spare Part

| | | | DELL DOSED/EM | DELL DOSED AV 10 /EVA/ |
|------|------|---------------------|---------------|------------------------|
| | | | DEH-P825R/EW | DEH-P825R/X1B/EW |
| Mark | No. | Description | Part No. | Part No. |
| | 1 | Cord Assy | CDE4648 | UDE4648 |
| | 2 | Polyethylene Bag | CEG-162 | UEG-002 |
| | 4 | Carton | CHG2831 | UHG-045 |
| | 5 | Contain Box | CHL2831 | UHD-002 |
| | 6 | Protector(R) | CHP1766 | |
| | | | | T |
| | 7 | Protector(L) | CHP1767 | I |
| | 12 | Accessory Assy | CEA2065 | UEA2065 |
| | 12-4 | Handle(x2) | CNC5395 | CNC4947 |
| * | 12-6 | Polyethylene Bag | E36-615 | CEG-127 |
| | 13 | Accessory Assy | CEA2081 | UEA2081 |
| | | ,, | | |
| | 13-1 | Battery | CEX1006 | UEX1006 |
| | 13-2 | Fastener(Soft) | CNM3729 | UNM3729 |
| | 13-3 | Fastener(Rough)(x2) | CNM4256 | UNM4256 |
| | 14-1 | Polyethylene Bag | CEG1116 | UEG1116 |
| | 14-2 | Owner's Manual | CRD1928 | URD1928 |
| | | • | | |
| | 14-3 | Owner's Manual | CRD1929 | URD1929 |
| | 14-4 | Installation Manual | CRD2034 | URD2034 |
| | 14-5 | Owner's Manual | CRD1989 | URD1989 |
| | 14-6 | Passport | CRY1013 | # CRY1014 |
| * | 14-7 | Warranty Card | CRY1087 | URY1087 |
| | ' | Training Gald | J | 0 |
| * | | Caution Card | CRD1145 | URP1145 |
| | | Ouddon Odlu | | |

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(I) PIONEER

Service Manual

ORDER NO. CRT1821

MULTI-CD CONTROL HIGH POWER CD PLAYER WITH RDS TUNER

XIB/EW



● This additional service manual is designed to be used together with Model DEH-P825R/EW Service Manual CRT1805. Refer to it for finding parts numbers and adjustment, etc. which are not shown in this manual. 4831# 2005/62

PACKING METHOD

Parts List(Page 88)

*: Non Spare Part

| | | | DEH-P825R/EW | DEH-P825R/X1B/EW |
|------|------|---------------------|--------------|------------------|
| Mark | No. | Description | Part No. | Part No. |
| | 1 | Cord Assy | CDE4648 | UDE4648 |
| | 2 | Polyethylene Bag | CEG-162 | UEG-002 |
| | 4 | Carton | CHG2831 | UHG-045 |
| ļ | 5 | Contain Box | CHL2831 | UHD-002 |
| | 6 | Protector(R) | CHP1766 | UHP-009 |
| | 7 | Protector(L) | CHP1767 | |
| 1 | 12 | Accessory Assy | CEA2065 | UEA2065 |
| | 12-4 | Handle(x2) | CNC5395 | CNC4947 |
| # | 12-6 | - | E36-615 | CEG-127 |
| | 13 | Accessory Assy | CEA2081 | UEA2081 |
| | 13-1 | Battery | CEX1006 | UEX1006 |
| | 13-2 | ~ Fastener(Soft) | CNM3729 | UNM3729 |
| | 13-3 | Fastener(Rough)(x2) | CNM4256 | UNM4256 |
| 1 | 14-1 | | CEG1116 | UEG1116 |
| | 14-2 | Owner's Manual | CRD1928 | URD1928 |
| | 14-3 | Owner's Manual | CRD1929 | URD1929 |
| | 14-4 | Installation Manual | CRD2034 | URD2034 |
| | 14-5 | Owner's Manual | CRD1989 | URD1989 |
| | 14-6 | Passport | CRY1013 | # CRY1014 |
| * | 14-7 | Warranty Card | CRY1087 | URY1087 |
| * | | Caution Card | CRD1145 | URP1145 |

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DEH-P825R

ELECTRICAL PARTS LIST ● Parts List(Page 29)

Tuner Amp Unit

| | DEH-P825R/EW | DEH-P825R/X1B/EW |
|----------------------|--------------|------------------|
| Circuit Symbol & No. | Part No. | Part No. |
| D502.672.941.991 | MA151WK | DAN202K |
| S601 | CSG1046 | USG1046 |
| C880 | CSZSR100M10 | **** |

Key Board Unit

| | DEH-P825R/EW | DEH-P825R/X1B/EW |
|---------------------------|--------------|------------------|
| Circuit Symbol & No. | Part No. | Part No. |
| R4946,4947,4948,4949,4950 | RS1/4S151J | RS1/4S391J |
| R4951,4952,4959,4960 | RS1/4S151J | RS1/4S391J |
| R4961,4962 | RS1/2S241J | RS1/2S471J |

EXPLODED VIEW AND PARTS LIST CHASSIS

Parts List(Page 82)

| | | | DEH-P825R/EW | DEH-P825R/X1B/EW |
|------|-----|---------------------|--------------|------------------|
| Mark | No. | Description | Part No. | Part No. |
| | 6 | Cord Assy | CDE4648 | UDE4648 |
| l | 21 | Tuner Amp Unit | CWX1923 | UWX1923 |
| | 25 | CD Mechanism Module | CXK5011 | UXK5011 |
| 1 | 30 | Handle | CNC5395 | CNC4947 |
| | 40 | Inverter Unit | CWM4531 | UWM4531 |
| | 44 | Antenna Cable | CDH1146 | UDH1146 |
| 1 | 64 | Detach Grille Assy | CXA8200 | UXA8200 |
| 1 | 65 | Panel Assv | CXA8711 | UXA8711 |
| ļ. | 86 | Key Board Unit | CWM4471 | UWM4471 |
| | 111 | Cord | CDE4387 | UDE4387 |
| | 118 | Connector | CNV4430 | UNV4430 |

CD MECHANISM MODULE Parts List(Page 86)

| | | | DEH-P825R/EW | DEH-P825R/X1B/EW |
|------|-----|--------------|--------------|------------------|
| Mark | No. | Description | Part No. | Part No. |
| | 1 | Control Unit | CWX1964 | UWX1964 |

. . . .

DEH-P825R

ELECTRICAL PARTS LIST ● Parts List(Page 29)

Tuner Amp Unit

| | DEH-P825R/EW | DEH-P825R/X1B/EW Part No. | |
|----------------------|--------------|------------------------------|--|
| Circuit Symbol & No. | Part No. | | |
| D502,672,941,991 | MA151WK | DAN202K | |
| S601 | CSG1046 | USG1046 | |
| C880 | CSZSR100M10 | | |

Key Board Unit

| | DEH-P825R/EW | DEH-P825R/X1B/EW |
|---------------------------|--------------|------------------|
| Circuit Symbol & No. | Part No. | Part No. |
| R4946,4947,4948,4949,4950 | RS1/4S151J | RS1/4S391J |
| R4951,4952,4959,4960 | RS1/4S151J | RS1/4S391J |
| R4961,4962 | RS1/2S241J | RS1/2S471J |

EXPLODED VIEW AND PARTS LIST CHASSIS ● Parts List(Page 82)

| | | | DEH-P825R/EW | DEH-P825R/X1B/EW |
|------|-----|---------------------|--------------|------------------|
| Mark | No. | Description | Part No. | Part No. |
| | 6 | Cord Assy | CDE4648 | UDE4648 |
| | 21 | Tuner Amp Unit | CWX1923 | UWX1923 |
| | 25 | CD Mechanism Module | CXK5011 | UXK5011 |
| | 30 | Handle | CNC5395 | CNC4947 |
| | 40 | Inverter Unit | CWM4531 | UWM4531 |
| | 44 | Antenna Cable | CDH1146 | UDH1146 |
| | 64 | Detach Grille Assy | CXA8200 | UXA8200 |
| | 65 | Panel Assy | CXA8711 | UXA8711 |
| | 86 | Key Board Unit | CWM4471 | UWM4471 |
| | 111 | Cord | CDE4387 | UDE4387 |
| | 118 | Connector | CNV4430 | UNV4430 |

CD MECHANISM MODULE

Parts List(Page 86)

| | | | DEH-P825R/EW | DEH-P825R/X1B/EW | |
|------|-----|--------------|--------------|------------------|--|
| Mark | No. | Description | Part No. | Part No. | |
| | 1 | Control Unit | CWX1964 | UWX1964 | |